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(FILE 'HOME' ENTERED AT 10:57:58 ON 14 JUN 2007)

FILE 'REGISTRY' ENTERED AT 10:58:10 ON 14 JUN 2007 STRUCTURE UPLOADED

L1

L2 10 S L1

L3 166 S L1 FULL

FILE 'CAPLUS' ENTERED AT 10:58:57 ON 14 JUN 2007 76 S L3

L4

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STR L1

Structure attributes must be viewed using STN Express query preparation.

166 SEA FILE=REGISTRY SSS FUL L1

76 SEA FILE=CAPLUS ABB=ON PLU=ON L3

=> d 1-76 ibib iabs hitstr

L4 ANSWER 1 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAT	ENT	NO.			KIN	D	DATE			APPI.	ICAT	ION	NO.		D.	ATE	
CN	1847	324			٨		2006	1018		CN 2	005-	1006	5095		2	0050	413
EP	1795	562			A2		2007	0613		EP 2	006-	7178			2	0060	405
	R:	AT.	BE.	BG.	CH.	CY.	CZ.	DE.	DK.	EE.	ES.	FI,	FR,	GB,	GR,	HU,	ΙE
		IS,	IT,	L1,	LT,	LU,	LV,	MC,	NL,	PL,	PŤ,	RO,	SE,	SI,	SK,	TR.	AL,
		BA.	HR,	MX.	YU												
RIORITY	APP	LN.	INFO	. : `						CN 2	005-	1006	5095		A 2	0050	413

ABSTRACT:
Reactive dye I for fibers is prepared (Z is -CGH3(1)pQ or -maphthyl(1)pSO2Y, X is halogen atom, quaternary ammonium salt, pyridine, 3-carboxypyridin-1-yl, 4-carboxypyridin-1-yl, methylpyridine, or carbamyl pyridine; Y = -OH, vinyl, or -CH2-CH2-W ehrein W is a group which can be removed by base treatment, preferably to Cl. -OSO3H, or carboxypyridinyl: I = -SO3H, Cl-4 alkyl, Cl-4 alkoy, or Cl-4 alkoyarehonyl: p = 0, 1, 2 or 3: Q = -SO2-Y, -CONH(CH2)nSO2Y, -(0) o-(CH2)m-COMH-(CH2)n-SO2-Y, or -NH-CO-T: T = u, p-halogen substituted propionyl or w-halogen substituted caryloyl: n and m are an integral from I to 6, resp.: o = 0, 1, 2, or 3: and R, Rl, and R2 are one of H, Cl-4 alkyl, halogen, -OM, -CN, Cl-4 alkoyx, cl-4 alkoyx, cl-4 alkoy, cl-4 alkoy, cl-4 alkoy, cl-4 alkoy, cl-4 alkoy, cl-4 substituted by a suitable for dyeing cellulose fiber in aqueous bath with the advantages of good water-washing fastness and deep dyeing and excellent chlorine-bleaching fastness.

912572-92-0
RL: TEM (Technical or engineered material use): USES (Uses)
(azo- and trizzine-containing reactive dye for dyeing of fibers)
912572-92-0 CAPLUS
Pyridinium, 3-(aminocarbony))-1-{4-[[5-[(2-carboxyethyl)amino]-2-[[2-authoxy4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]azo]-4-sulfophenyl]amino]-6-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-

L4 ANSWER 2 0F 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
171TLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:

ACCPUS COPPRIGHT 2007 ACS on STN
2006:1099697
CAPLUS
145:43989]
CAPLUS
145:44989

DOCUMENT TYPE:

Patent English

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO KIND DATE APPLICATION NO. DATE US 2006230552
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: ΑI 20061019 US 2005-246766 CN 2005-10051006 20051006 A 20050413 MARPAT 145:439891

H03S HN-CO-NH2 ĊH2

ARSTRACT:
Fiber-reactive dyes, useful for materials containing cellulose fibers, have (aaino) (sulfo) (azo)phenylaminotriazinylamino groups. Dyed materials exhibit outstanding wash fastness, build-up, and chlorine fastness. A typical dyel was manufactured by disacutization of 7-maino-1, 3-6-trisulfonaphthalene, coupling of the resulting diazonium sall with m-mainophenylurea, reaction of the resulting intermediate with cyanuric chloride, reaction of the 3rd intermediate with 2,4-diamino-1-benzenesulfonic acid, reaction of the 4rd intermediate with 4-(a-carboxypyridinium, and coupling of the 5th intermediate with 4-(2-sulfatoethylsulfonyl)-2-sulfoniline.

H035-0

912572-92-0P
RL: NMF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(Tiber reactive dyes based on mainotriazinylaminonrylazo deriva, for cellulose fiber-containing materials)
912572-92-0 CAPILS
(Pyridinium, 3-(mainocarbonyl)-i-[4-[[5-[(2-carboxyethy)]amino]-2-[[2-methoxy-4-[[2-(au)fooxy)ethy]]sulfonyl]phenyl]uzo]-4-sulfophenyl]maino]-6[[6-[(1,5-disulfoo-2-maphthalenyl)]aro]-5-bydroxy-7-sulfor2-enaphthalenyl]methylamino]-1, 3,5-triazin-2-yl]- (9CI) (CA INDEX NAME)

ANSWER 1 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) naphthalenyl]methylamino]-1, 3, 5-triazin-2-yl]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L4 ANSWER 2 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

L4 ANSWER 3 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NAMERS:
DOCIMENT NUMBER:
115:27326
11TLE:
1NVENTOR(S):
1NVENT

DOCUMENT TYPE: Patent

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE CN 1810893 US 2006185556 PRIORITY APPLN. INF GRAPHIC IMAGE: 2006-10006283 2006-338983 2005-6616 20060802 20060824 20060124 20060125 20050125 INFO.

$$(71.502) \xrightarrow{\text{R3}} \xrightarrow{\text{N=N}} \xrightarrow{\text{N=N}} \xrightarrow{\text{N}} \xrightarrow{\text{N}$$

ABSTRACT:
Title dye composition comprises at least one reactive dye I and at least one reactive dye II: wherein RI = H. CI-4 alkyl optionally substituted by hydroxyl, sulfonic group, etc.: R2-R5 = independently H. CI-4 alkyl. CI-4 alkoxy, etc.: YI = RR6(CH2)2-SS02AI (3a), RR7CGH3R8S02A2 (3b), or RR9CGH3R1RAII (3c), R6, R7 and R9 = independently H, CI-4 alkyl pentonally substituted by hydroxyl, sulfonic group, etc., R8, R10, R11 = independently H, CI-4 alkyl, CI-4 alkoyl, etc., X1, A2, and Z1 to Z3 = independently vinyl, etc.; X1 and X2 = independently substituted by an open containing nitrogen or hydroxyl, especially cellulose fiber material, the composition can give color (such as light orange) hard to be achieved by single dye and exhibits excellent absorbability and fixation, outstanding light and moisture fastness.

906796-03-0 RL: TEM (Technical or engineered material use): USES (Uses)

L4 ANSWER 4 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 2006:744621 CAPLUS
DOCUMENT NUMBER: 146:297664
TITLE: 0n the synthesis and the appli

140:297004 On the synthesis and the application of some reactive triazine azo dyes containing tetramethylpiperidine

AUTHOR (S): CORPORATE SOURCE:

triazine azo dyes containing tetrametry[piperidine fragment Miladinova, P. Wildinova, P. University of Chemical Technology and Metallurgy, Sofia, 1756, Bulg. Journal of the University of Chemical Technology and Metallurgy (2005), Volume Date 2006, 41(2), 147-152 CODEN: JUCKES; ISSN: 1311-7629 University of Chemical Technology and Metallurgy Journal SOURCE:

PUBLISHER: DOCUMENT TYPE:

DOCUMENT TYPE: Journal LANGUAGE: Journal LANGUAGE: English ASSTRACT: The synthesis of two reactive triazine azo dyes containing a tetramethylpiperidine(TMP) residue in their structure was investigated. Two applied in the practice azo dyes, a yellow and a red one as basic chromophores were used. The synthesis of the dyes was controlled by thin-layer chromatog. (TLC). The compute were characterized also by UV/Vis, IR and III-MMR spectra. The synthesized two and another eight triazine reactive dyes, three of them containing a TMP fragment and five trade products not containing a TMP fragment and five trade products not containing a TMP fragment were investigated. Cotton fabrics were dyed and their fastness of perspiration, dry and wet treating as well as machine washing were determined The fabrics with an intense color and good characteristics were obtained thus presenting a possibility for extension of the applied in practice reactive dyes.

RL: PRP (Properties)
(synthesis reactive triazine azo dyes containing tetremethylpiperidine fragment)
863233-06-1
1,5-Naphthalenedisulfonic acid, 3-[[1-hydroxy-6-[[4-(2-propenylamino)-6-[(2, 2, 6, 6-tetramethyl-4-piperidinyl)amino]-1, 3, 5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9Cl) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 13 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 3 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (reactive dye compn. for dyeing nitrogen- or hydroxy-contg. fiber) 906796-03-0 CAPLUS (fiber) 91. 5-Naphthalenedisulfonic acid. 2-[[i-hydroxy-6-[[4-(4-morpholiny])-6-[[3-([27-(sulfoxy)ethy])sulfony]]-hanjo-[1, 3, 5-triazin-2-y]]amino]-3, 5-triazin-2-y]

PAGE 1-A

PAGE 1-B

- CH2-0S03H

L4 ANSWER 5 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1TITLE:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
CAPLUS COPPRIGHT 2007 ACS on STN
2005:460018 CAPLUS
143:154893
Composition of bright azo red dyes for dyeing fiber and leather
Xi, Xiangyun: Wu, Jinglei: Li, Xuanji
Shanghai Dyeatuff Chemical Plant No. 8, Peop. Rep.
China
Paming Zhuanli Shenqing Gongkai Shuomingshu, No pp.

given CODEN: CNXXEV

Patent Chinese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE

CN 1511884 A 20040714 CN 2002-160739 20021227
PRIORITY APPLN. INFO. 0N 2002-160739 20021227
OTHER SOURCE(S): MARPAT 143:154893
MASTRACT:
The bright red dye composition suitable for dyeing and printing cotton, wool, silk, leather, synthetic polyamide fiber and other blended fabric are prepared via compounding several kinds of active dyes. The active dye compns. have excellent coloring capacity and are especially suitable for middle temperature dyeing of cotton fabric at 50-70°.

859502-99-1 859503-00-7 859503-01-8
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)

(Uses)
(Composition of azo bright red dyes for dyeing fiber and leather)
859502-99-1 (APLUS
1, 3, 6-Naphthalenetrisulfonic acid, 7-[[6-[[4,6-bis[[3-[[2-[sulfooxy]ethyl]sulfony]]phenyl]amino]-1, 3, 5-triazin-2-yl]amino]-1-hydroxy3,5-disulfo-2-maphthalenyl]azo] - [9Cl) (CA INDEX NAME)

(Continued) L4 ANSWER 5 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

- CH2-CH2-OSO3H

859503-00-7 CAPLUS
1, 3, 6-Naphthalenetrisulfonic acid, 7-[[6-[[4,6-bis[[3-[[2-(sulfoox)2-btyl]sulfony]]phenyl]maino]-1, 3, 5-triszin-2-yl]methylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9Cl) (CA INDEX NAME)

PAGE 1-B

859503-01-8 CAPLUS 859803-01-8 CAPLUS 1,5-Naphthal enedisulfonic acid, 2-[[6-[[4,6-bis[[3-[[2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,5-disulfo-2-naphthalenyl]aroj- (901) (CA INDEX NAME)

L4 ANSWER 6 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
10 COMPORATE SOURCE:
CORPORATE SOURCE:
SOURCE:
UNIT SOURCE:
PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
DOCUMENT TYPE:
LANGUAGE:
CTESSOURCE SOURCE SOURCE:
CTESSOURCE:
CTESSOURCE

ABSTRACT:
The synthesis of five new reactive triazine ato dyes and their intermediates was nevertigated. Three of these dyes contained a tetramethylpiperidine (TMP) group and far of them contained a polymerizable group in their mol. Two different reaction schemes for synthesis were studied and the most suitable was determined (bunnt, thin-layer chromatog, to monitor the synthesis was applied. Cottom fabrics were dyed and their color characteristics were measured. Cottom fabrics were dyed and their color characteristics were measured. Copolyme, with earylamide and acrylonitrile to give polymers with an intense orange color resistant to solvent extraction was discussed. The photostability of the dyes in solution and on cottom fabrics was studied and it was found that two of the dyes containing a TMP fragment had good photostability.

863233-06-IP
RL: PRP (Properties): SPN (Synthetic preparation): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses) (dye: preparation of reactive triazine azo dyes containing allyl or piperidine groups)
83233-06-I CAPLUS
1.5-Naphthalenedisulfonic acid, 3-[[1-hydroxy-6-[4-(2-propenylamino)-6-[2,2,6,6-tetramethy]-4-piperidiny])amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 12 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 5 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

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PAGE 1-B

— CH2— OSO3H

L4 ANSWER 7 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
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FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 2005042028
PRIORITY APPLN. INT
OTHER SOURCE(S):
GRAPHIC IMAGE: ٨ 20050217 JP 2003-278534 JP 2003-278534 20030723 20030723 INFO.: MARPAT 142:221378

ABSTRACT:
The water-soluble orange ink-jet inks contain water-soluble monoazo compds, comprise those represented by free acids 1 (R! = maino; R2 = amino, OH, SH: R3 = Ph, naphthyl: R4 = H, Ci-2 alkyl) or their salls. Thus, diazotizing 36.3 parts 2-naphtylamsino-1.5-disublenia ecid, coupling with acetylation products of 4-hydroxy-7-mathylamino-2-naphthalenesulfonic acid and Ac20, hydrolysis, neutralizing, salting out, and filtration gave a monoazo compound, which was dissolved in water and subjected to primary condensation in the presence of cyanuric chloride, neutralizing, 2d condensation in the presence of M3, 3rd condensation in the presence of Stalls, and Stalls and Stal

IT 839708-70-2P
RL: IMF (Industria) manufacture): TEM (Icchnical or engineered material use): PREP (Preparation): USES (Uses)
(water-soluble monoazo compds. or their salts for manufacture of water-soluble orange ink-jet inks)
8N 839708-70-2 CAPLUS
CI, 5-Naphthalenedisulfonic acid, 2-[[6-[[4-maino-6-(4-morpholiny])-1,3,5-iriazin-2-y]methylamino]-i-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI)
(CA INDEX PAME)

L4 ANSWER 7 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 8 0F 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 855245-43-8P 865245-46-IP 865245-49-4P 865245-51-8E 
18. PRP (Properties): SPN (Synthetic preparation): PREP (Preparation) RI. PRP (Preparation) PREP (PREP (PREPARATION) PREP (PREP

CM 1

CRN 863233-06-1 CMF C35 H39 N9 010 S3

CM 2

CRN 79-06-1 CMF C3 H5 N O

865245-46-1 CAPLUS
1,5-Maphthalenedisulfonic acid, 3-[[6-[[4-amino-6-(2-propenylamino)-1,3,5-triazin-2-y]]amino]-1-hydroxy-3-mulfo-2-naphthalenyl]azo]-, polymer with 2-propensaide (90) (CA INDEX NAME)

CM 1

CRN 865245-45-0 CMF C26 H22 N8 010 S3

CN 2

CRN 79-06-1

L4 ANSWER 8 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
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AUTHOR(S):
CORPORATE SOURCE:
SOURCE:
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PUBLISHER:
DOCUMENT TYPE:
LANGUAGE:
AUTHOR (S):
CORPORATE SOURCE:
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LANGUAGE:
AUTHOR (S):
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PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

ASSTRACT:
The photostability of 6 triazine azo dyes, four of them polymerizable and three of them containing a tetramethylpiperidine (TMP) fragment in their mol., was investigated. It was found that the presence of the TAP group increased the photostability. Eight copolymers with acrylamide and acrylomitrile having an intense color stable to solvents were obtained and dye photostability was increased by the polymerization. The influence of the dyes on the photostability of copolymers were studied as well and it was found that two of the dyes with TMP groups had good stabilizing effects and could be recommended.

IT 863233-06-1 865245-45-0
RL: PRP (Proporties): TEN (Technical or engineered material use): USES (Uses)
(dye: photostability of triazine azo dyes and their scrylic copolymers)
RN 863233-06-1 CAPIUS
CN 1.5-Naphthalenedisulfonic acid, 3-[1-hydroxy-6-[4-(2-propenylamino)-6-[(2.2,6.6-tetramethy)-4-piperidiny)]amino]-1.3.5-triazin-2-y1]amino]-3sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

865245-45-0 CAPLUS 1.5-Naphthalenedisulfonic acid, 3-[{6-[[4-amino-6-(2-propenylamino)-1.3,5-frimzin-2-yl]mmino]-1-hydroxy-3-sulfo-2-naphthalenyl]mzo]- (9C1) (CA INDEX NAME)

ANSWER 8 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) CMF C3 H5 N O

865245-49-4 CAPLUS
1.5-Naphthalenedisulfonic acid. 3-[{1-hydroxy-6-[{4-(2-propenylamino)-6-[{2, 2, 6, 6-teramenthyl-4-piperidinyl})amino]-1, 3, 5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]-, polymer with 2-propenenitrile (9Cl) (CA INDEX NAME)

CM I

CRN 863233-06-1 CMF C35 H39 N9 O10 S3

CM 2

CRN 107-13-1 CMF C3 H3 N

H2C== CH- C== N

865245-51-8 CAPLUS
1,5-Naphthalenedisulfonic acid, 3-[[6-[[4-amino-6-(2-propenylamino]-1,3,5-triazin-2-y]]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-, polymer with 2-propenenitrila (9CI) (CA INDEX NAME)

CM 1

CRN 865245-45-0 CMF C26 H22 N8 010 S3

CM 2

1.4 ANSWER 8 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

H2C == CH - C== N

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 9 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) naphthalenyl azol-7-sulfo-1-naphthalenyl azol-7-sulfo-2-naphthalenyl amioni-1, 3,5-triazine-2,4-diyl jbis- (961) (CA INDEX NAME)

L4 ANSWER 9 OF 76
ACCESSION NUMBER:
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111-12. DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION: Patent Japanese I PATENT NO. KIND DATE APPLICATION NO. DATE JP 2004323712 PRIORITY APPLN. INFO. : OTHER SOURCE(S): GRAPHIC IMAGE: 20041118 20030425 20030425 A JP 2003-121336 JP 2003-121336 MARPAT 141:412572

ABSTRACT:
The inks contain I (A = 2.5-disubstituted 1.4-phenylene, substituted 1.4-naphthalene; B = substituted triazinylamino; n = 0, 1; where B is at 2- or 3-position and sulfo group is at 3- or 4-position of the naphthalene ring).
Thus, II was prepared and formulated into an aqueous ink-jet ink giving images with high color (black) d., good resistance to ozone, light and water when printed on paper.

IT 793723-89-4P
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); REP (Preparation); USES (Uses)
(disazo compts, for water-thinned ink-jet inks with good ozone, light, and water resistance)
RN 793723-89-4 (APL)
CN P-Alamine, N, N'-[6-[[5-hydroxy-6-[[4-[[8-hydroxy-3,6-disulfo-i-

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ANSWER 10 OF 76
ACCESSION NUMBER:
DOCLIMENT NUMBER:
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INVENTOR(S):
PATENT ASS(REE(S):
SOURCE:
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DOCLIMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
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FAMILY ACC. LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PAI	TENT	NO.			KIN	D	DATE				.ICAT					ATE	
WO	2004	0132	33		Al		2004	0212								0030	717
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AII	2003	2467			41		2004	0212		AII C	.003_	2453	11		2	0030	717
CD	1625	267					2004	0423		DD 2	1003-	7667	71			0030	717
CO	1525	267			U.I		2000	0321		isr 2	.003-	1002	u.s		-	vusu	
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	п.							MK,									
DĐ	2002	A120	01.	ы,		и.	2005	OC LA	U1.	DO '	1002	1200	26.	Leties	nυ,	~~~	717
CN	1671	700	02		•		2005	0014		CNI C	1003	0174	20			0030	717
ID	2003 1671 2005 3574 2005 2005 APP	199			÷		2000	1110		th r	1003-	6169	20		2	0030	717
Jr.	2005	2223	14		ļ.		2003	7110		JF 4	1004	3660	22		- 2	0030	717
A1	3005	04 0560	or		١.		2007	0410		NI 4	003-	1007	64		- 4	0020	""
151	2005	CHOO	00		٠,١		2003	1111		10 0	1005	CNOC	04		- 4	0050	202
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(11)	APP	LN.	INFU							EP 2	002-	4056	52		A 2	0020	726
	URCE	(m) .					<b>-</b>								w 2	UU3U	411

$$\begin{array}{c} A-N=N \\ HO_3S \end{array} \\ \begin{array}{c} N \\ R \end{array} \\ \begin{array}{c} CO \\ R \end{array} \\ \begin{array}{c} X1 \\ N \\ N \end{array} \\ X2 \end{array}$$

ABSTRACT: Yellowish-red anionic monoazo dyes (1: A = naphthyl containing 1-2 sulfo and/or carboxy groups: R = H. Cl-4-alkyl:  $\lambda l$ .  $\lambda l$  = substituted amino: n = 0-1) are disclosed, which show high degrees of exhaustion and color strength and

14 ANSWER 10 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) fastness when used to dye paper and which exhibit excellent water soly. facilitating the use of concd. liq. compns. In an example, cyanuric chloride was condensed with ethanolamine and I-maid (1:2:1) to give a coupling component which when used with diazotized 2-naphthylamine-6-sulfonic acid gave a red dye.

656240-23-2P RL: IMF (Indu ΙŦ

PAGE 1-B

656240-19-6P 656240-20-9P 656240-21-0P
656240-22-IP
RL: INF (Industrial manufacture): TEM (Technical or engineered material use): PEEP (Preparation): USES (Uses)
(red dye: production of anionic monoazo dyes for paper)
656240-19-6 CAPLUS
2-Naphthalenesulfonic acid, 7-{[4,6-bis{(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-{(6-sulfo-2-naphthalenyl)azo}- (9C1) (CA INDEX NAME)

656240-20-9 CAPLUS 2-Naphthalenesulfonic acid, 7-[[4,6-bis{(2-hydroxyethyl)amino]-1,3,5-triazin-2-yl]amino]-4-hydroxy-3-[(7-sulfo-2-naphthalenyl)azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 10 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) ANSWER 10 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

 $\begin{array}{lll} 656240-21-0 & CAPLUS \\ 1-Naphthal enesul fonic acid, & 4-\left[\left[6-\left[\left[4-\left[\left[4,6-bis\left((2-hydroxyethyl\right)amino\right]-naphthalenyl\right]azo\right]-\right. \\ \left. (9C1) & (GA \ INDEX \ NAME) \\ \end{array} \right. \\ \end{array}$ 

 $\begin{array}{lll} 656240-22-1 & CAPLUS \\ 2-Naphthal\,enesul\,fonic\,\,acid, & 7-\left[\left\{4-\left[\left\{4,6-bis\right]\left(2-hydroxyethyl\right\}\right.amino\right]-1,\,3,\,5-triazin-2-yl\,j.maino]\,benzoyl\,j.amino]-4-hydroxy-3-\left[\left.\left(6-su\right]fo-2-naphthal\,enyl\,j.azo]-& (SCI) & (CA INDEX NAME) \\ \end{array}$ 

PAGE 1-B

L4 ANSWER 11 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1381:38757
1TITLE:
1NVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPP:
DOCUMENT TYPP:
DOCUMENT TYPP:
CAPLUS COPVRIGHT 2007 ACS on STN
2003:97478 CAPLUS
1381:38757
Azo dyes incorporating anionic and cationic groups, their production and their use on paper
Lenartz, Wichael: Kaseser, Doelf: Weiss, Sandra
Ciba Specialty Cheaicals Holding Inc., Switz.
CODEN: PIXXD2
PATENT

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent English

PAT	ENT	NO.			KIN	D	DATE			APPL	LICAT	10N	NO.		D	ATE		
WO	2003	0102	39		Al		2003	0206		WO 2	2002-	EP77	32		2	0020	711	
	₩:	AE,	AG,	AL,	AM,	AT.	AU,	AZ,	BA,	BB,	BG,	BR,	BY,	BZ,	CA,	CH,	CN,	
							DK,											
		GN,	KR,	Hυ,	10,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KZ,	LC,	LK,	LR,	
							MD,											
							SE,					TJ,	TM,	TN,	TR,	11,	TZ.	
							YU,											
	RW:						MZ,											
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							BJ.	CF,	CG,	CI,	CM,	GA,	GN,	GQ.	GW.	ML,	MR,	
		NE,	SN,	TD,	TG													
CA	2452	522			۸ı		2003 2003 2004 2004	0206		CA 2	2002-	2452	522		2	0020	711	
ΑU	2002	3312	48		٨I		2003	0217		AU 2	2002-	3312	48		2	0020	711	
BR	2002	20112	72		٨		2004	0803		BR 2	2002-	1127	2		2	0020	711	
EP	1442	2082			. 41		2004	0804		EP 2	2002~	7671	98		2	0020	711	
	R:						ES,										РΤ,	
		IE,	S1,	LT,	LV,	FI,	RO,	MK,	CY,	۸L,	TR,	BG,	CZ,	EE,	SK_			
CN	1532	1416			٨		2004	0929		CN 2	2002-	8145	86		2	0020	713	
JР	2004	15362	02		Ţ		2004	1202		JP 2	2003-	5155	96		- 2	0020	711	
ZA	2003	10095	89		۸.		2004	0628		ZA 2	2003~	9589			2	0031	210	
vs	2004	12059	12		Al		2004	1021		US 2	2004-	4841	35		2	0040	117	
US	706t	969			B2		2006	0627										
IN	2004	ICN00	329		٨		2004 2004 2004 2004 2006 2006	1223		IN 2	2004-	CN32	9		. 2	0040	217	
RIT	( APF	LN.	INFO	. :						EP 2	2001-	8107	19		A 2	0010	720	
							138:			WO 2	2002-	tr77	32		w 2	0020	/ i l	
x 20	MIKCE	: (2):			MAK	PAI	138	1387	01									

OTHER SOURCE (S GRAPHIC IMAGE:

ABSTRACT:
The invention relates to azo dyes (I and/or II: A = optionally substituted benzenesulfonic acid group: R = H, optionally substituted Ci-4-alkyl: XI, X2 = N-containing group: n = 0, 1), the compds, being in an internal or external salt form. The dyes are prepared using ANI2 as the diazo components. The dyes are predominantly red and show high degrees of dyeing exhaustion and fastness to water and light. In an example, the condensation product of cynauric chloride with 3-(diethylamino)propylamine and G-mmino-1-maphthol-3-sulfonic acid (1:2:1) was prepared and coupled with diazotized 1-maphthylamine-6-sulfonic acid to give a red dye.

494754-53-9P
RL: IMF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(red dye; production of red azo dyes incorporating anionic and cationic groups for use on paper)
494754-53-9 CAPLUS
2-Naphthalenesulfonic acid, 7-[[4,6-bis[[3-(diethylamino)propyl]amino]-1,3.5-triarin-2-yl]amino]-4-hydroxy-3-[(6-sulfo-1-naphthalenyl)azo]- (9C1)
(CA INDEX NAME)

17

494754-54-0P
RL: INF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(scarlet dye; production of red azo dyes incorporating anionic and cationic groups for use on paper)
494754-54-0 CAPLUS
2-Naphthalenesulfonic acid, 7-[{4.6-bis{[3-(diethylamino)propyl]amino}-1, 3.5-triazin-2-yl]amino]-4-hydroxy-3-[(6-sulfo-2-naphthalenyl)azo]- (CA INDEX NAME)

REFERENCE COUNT:

THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS

6

L4 ANSWER 12 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
134:18553
1NTEXT ASSIGNEE(S):
PATENT ASSIGNEE(S):
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CAPLUS COPYRIGHT 2007 ACS on STN
2000:839114 CAPLUS

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134:18553
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DOCUMENT TYPE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 1055710	Al	20001129	EP 2000-110339	20000513
EP 1055710	B1	20040811		
R: AT, BE, CI			3, GR, IT, LI, LU, NL.	SE, MC, PT,
IE, SI, LI	', LV, FI			
DE 19923989	Al	20001130	DE 1999-19923989	19990526
AT 273350	T	20040815	AT 2000-110339	20000513
PT 1055710	Т	20041130	PT 2000-110339	20000513
ES 2224963	T3	20050316	ES 2000-110339	20000513
US 6444794	81	20020903	US 2000-576701	20000522
TW 263662	8	20061011	TW 2000-89109850	20000522
TR 200001490	A2	20001221	TR 2000-1490	20000524
IP 2001019867	Ä	20010123	IP 2000-155655	20000526
IORITY APPLN. INFO. :			DE 1999-19923989	A 19990526
HER SOURCE (S):	CASREA	CT 134:18553	3; MARPAT 134:18553	

ABSTRACT:
Reactive dyes (1: 1. = azo or other chromophore, Q = nmino group containing viny) sulfone or viny! sulfone-generating moiety: R = H, optionally substituted C1-4-alky! or C2-5-alkoxycarbony!: X = connecting group containing N: Y = viny! or viny!-generating group: A = direct bond or organic connecting group: n = 1, 2: n = 0-2: z = 1, 2) are obtained for dyeing and printing of cotton. I have improved fastness and application properties. In an example, 2-chlorov-d-eyanamido-6-[N-methyl-N-(sulfatoethylsulfonylethyl)amino]-s-triazine was condensed with 1-mmino-B-naphthol-3-[6-disulfonic acid and the product was coupled with diazotized 4-(sulfatoethylsulfonyl)amiline to give a dye (2-max 520 nm), bluish red on cotton.

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309715-11-5P
RL: IMF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(orange dye: production of reactive cyanamidotriazine vinyl sulfone dyes)
309715-11-5 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-(cyanoamino)-6-[methyl[2-[[2-(sulfooxy)ethyl]sulfonyl]ethyl]amino]-1, 3,5-triazin-2-yl]amino]-1-hydroxy3-sulfo-2-naphthalenyl]szo]-, tetrasodium salt (9CI) (CA INDEX NAME)

L4 ANSWER 12 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

REFERENCE COUNT:

THERE ARE 9 CITED REFERENCES AVAILABLE FOR THIS RECORD, ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 13 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1998: 199014 CAPLUS
128:289521
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128:289521
1198: 199014 CAPLUS
128:289521
1108: 289521
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AUTHOR (S):

groups no. 1. A. Rahim H. W. B.; Yusoff, A. Rahim H. M.; Ahnad, Rahmalan; Barek, Jiri; Zina, Jiri Chenistry Department, Loughborough University of Technology, Leicostershire, LEH 37U, UK Analytica Chimica Acta (1998), 362 (2-3), 235-240 CODEN; ACACAM; ISSN: 0003-2670 Elsevier Science B.V. CORPORATE SOURCE: SOURCE:

CODEN: ACACAM: ISSN: 0003-2670

PUBLISHER: Elsevier Science B.V.
DOCUMENT TYPE: Journal
LANGLAGE: English
ASSTRACT:
D.c. and differential pulse polarograms of reactive triazine-based azo dyes
containing 4-carboxypyridyl and 1,4-diazabicyclo[2,2,2]octanyl (DABCO) leaving
groups show one wave or peak corresponding to reduction of the szo group and other
waves or peaks at more neg, potentials corresponding to the reduction of reactive
groups. Optimum conditions were found for polarog, and voltammetric determination at
submicromolar concns. of the test dyes based on azo group reduction The peaks
corresponding to the reduction of the reactive group can be used for monitoring the
hydrolysis of the test dyes.

132060-26-5 205747-00-8
RL: ANT (Analyte): PEP (Physical, engineering or chemical process): ANST
(Analytical study): PRDC (Process)
(polarog, and voltametric determination of triazine-based reactive magnetic determination of triazine-based reacti

aroups: CAPLIS
Pyridinius, 4-carboxy-1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl)azo]-5-hydroxy-1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-1-[4-[(6-[

205747-00-8 CAPLUS 4-Aza-1-azoniabicyclo[2.2.2]octane,  $1-[4-[6-[(1,5-disu)]o^2-naphthaleny])azo]-5-hydroxy-7-sulfo-2-naphthaleny]]methylamino]-6-(methylphenylamino)-1, 3, 5-triazin-2-yl]-, inner salt (9CI) (CA INDEX NAME)$ 

1.4 ANSWER 14 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996: 169303 CAPLUS
DOCUMENT NUMBER: 2124:258555
TITLE: 242:258555
INVENTOR(S): 540:242:258555
INVENTOR(S): 540:242:258555
INVENTOR(S): 540:242:258555
INVENTOR(S): 540:242:258555
INVENTOR(S): 540:242:25855
INVENTOR(S): 5

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 07331145	A	19951219	JP 1994-125100	19940607
JP 3371542 PRIORITY APPLN, INFO.:	82	20030127	JP 1994-125100	19940607
OTHER SOURCE(S): GRAPHIC IMAGE:	MARPAT	124:263652		

ABSTRACT:

Title liqs., useful for ink-jet printing black inks, etc., contain aqueous medium and ≥1 11-type azo dyes {as free acids: A, C = (substituted) Ph, (substituted) naphthyl: B, D = (substituted) phenylene, (substituted) aphthylene RI-5 = H, CI-18 alkyl, Ci-18 alkenyl, aryl, aralkyl, cycloalkyl, heterocycle: which may be substituted: ≥1 RI-4 are carboxyl-substituted: n = 0-1]. The liqs. may comprise water 35-93, water-soluble organic solvents 5-50, and the dyes 2-8%.

175466-19-0 175466-22-5
RL: TEM (Technical or engineered material use): USES (Uses)
(black water-based jet printing inks containing disaze dyes)
175466-19-0 CAPLUS
1, 4-Benzenedicarboxylic acid, 2-[[4-[[6-[[4-[(4-carboxypheny)]nsino]-6-(octadecylamino)-1, 3-tripzim-2-yl]maino]-1-hydroxy-3-sulfo-2-naphthalenyl]szo]-3-cthoxy-7-sulfo-1-naphthalenyl]szo]- (9C1) (CA INDEX NAME)

ANSWER 13 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

REFERENCE COUNT:

14 THERE ARE 14 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

ANSWER 14 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

$$\label{eq:continuous} \begin{split} &175466-22-5 \quad \text{CAPLUS} \\ &1,2-\text{Benzenedicarboxylic acid.} \quad 4-\left[\left\{4-\left[\left\{6\right\right]\left\{2-\left[\left\{4\right\right\}\right\}\right\}\right]\right] \\ &1\left\{\left\{-carboxy-2-hydroxyethyl\right\}\right\} \\ &1\left\{\left\{-carboxy-2-hydroxyethyl\right\}\right\}\right] \\ &1\left\{-carboxy-2-nydroxyethyl\right\}\right] \\ &1\left\{-carboxy-1-naphthalenyl\right\}\right] \\ &2o]- \left(\text{GA INDEX NAME}\right) \end{split}$$

. 5

L4 ANSWER IS OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
1171LE:
1299:104067 CAPLUS
124:178554
Polarographic and voltammetric determination of selected triazine-based azo dyes with different reactive groups
Barek, Jiri: Fogg, Arnold G.: Moreira, Josino C.: Zanoni, M. Valnice B.: Zina, Jiri
CORPORATE SOURCE:

SOURCE:

SOURCE:

DUBLISHER:
DOCUMENT TYPE:
LANGIAGE:
LANGIAGE:
LANGIAGE:
LANGIAGE:
LANGIAGE:
LEsevier
Journal
LANGIAGE:
English

PUBLISHER: DOCUMENT TYPE: LANGUAGE: ABSTRACT:

LANGUAGE.

Bashad:

Mechanisms are suggested for the polarog, reduction of five triazinyl azo dyes differing only in their potentially reactive group, and optimum conditions are given for their polarog, and voltammetric determination. The limit of determination using a static mercury drop electrode was around 1 \* 10-6 mol 1-1 for TAST polarog, and 2 \* 10-8 mol 1-1 for differential pulse polarog. Bising a hanging mercury drop electrode, the limit of determination was around 1 \* 10-8 mol 1-1 for differential pulse voltammetry and around 2 \* 10-10 mol 1-1 for differential pulse voltammetry and around 2 \* 10-10 mol 1-1 for adsorptive stripping voltammetry. The reduction process of the azo group is used in all cases. Two of the dyes, viz. <1 and -SCI2CH20H derivs., exhibit another reduction process at more neg, potentials, which is due to a 2e-reduction of a C:N bond in the triazine ring. With 3-carboxypyridyl, methoxy and amino derivs. the reduction in the triazine region is overlapped by the reduction of base electrolyte.

174096-73-2 174096-75-4
RL: ANT (Analyte): ANST (Analytical study)
(polaros, and voltammetric determination of selected triazine-based azo dyes
with different reactive groups)
174096-73-2 CAPLUS
1.5-Naphthalenedisulfonic acid, 2-[6-[4-amino-6-(methylphenylamino)1.3.5-triazin-2-y-]methylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo](SCI) (CA INDEX NAME)

 $\begin{array}{ll} 174096-75-4 & CAPLUS\\ Pyridinium, & 3-carboxy-1-\{4-[\{6-\{(1,5-disu\}fo-2-naphthaleny\}\}azo]-5-hydroxy-7-sulfo-2-naphthaleny] | methylamino]-6-(methylphonylamino)-1, 3, 5-triazin-2-yl]-, & inner salt (9C1) & (CA INDEX NAME) \\ \end{array}$ 

L4 ANSWER 16 OF 76
ACCESSION NAMER:
DOCUMENT NUMBER:
11TLE:
1NVENTOR(S):
PATENT ASSIGNEE (S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT

DOCUMENT TYPE: LANGUAGE:

Japanese I

LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 07150088
JP 3511652
PRIORITY APPLN. 1NFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19950613 JP 1993-301926 19931201 A B2 20040329 JP 1993-301926 19931201 MARPAT 123:343739

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
Title liqs., useful for ink-jet printer, etc., contain water-based mediums and 21 dyes selected from tetrazo compds. I as free acids [A, D = (substituted) Ph, naphthyl: B, C = (substituted) phenylene, naphthylene: R1-4 = B, (substituted) C1-18 alkenyl, (substituted) argly, (substituted) cycloalkyl, (substituted) argly, (substituted) argly, (substituted) argly, (substituted) heterocycle: Y = divalent linking group; m, n = 0, 1]. Thus, diethylene glycol 10, iso-Pr alc. 3, tetrazo dye II 3, and balance vater were mixed to give title liquid providing clear bluish black dots in ink-jet printing.

170694-14-1 170694-17-4 170694-26-5 170694-28-7 RI: TEM (Technical or engineered material use); USES (Uses) (dyes: inks containing water-based mediums and bistriazine-containing tetraazo

(dyes: INXS containing to the dyes)
170694-14-1 CAPLUS
1,4-Benzenedicarboxylic acid, 2,2'-[1,3-phenylenebis[methyleneimino]6-[(4-carboxyeyclohexyl)amino]-1,3,5-trimzine-4,2-diyl]imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo(3-ethoxy-7-sulfo-4,1-naphthalenediyl)azo]]bis-(9C1) (CA INDEX NAME)

ANSWER 15 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

L4 ANSWER 16 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\label{eq:continuous} \begin{split} &170694-17-4 \quad CAPLUS \\ &1,2-Benzenedicarboxylic scid. \quad 4.4^*-[1,2-ethenediylbis[(3-sulfo-4,1-phenylene) sino[6+[(3-sulfo-4,1-phenylene) sino[6+[(3-sulfo-6,2-naphthalenediyl)]azo][6+carboxy-4,1-naphthalenediyl)lazo][6+[9C1] \quad CA. INDEX NAME. \end{split}$$

L4 ANSWER 16 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-A

PAGE 1-B

L4 ANSWER 16 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 2-A

PAGE 2-B

 $\begin{array}{lll} 170694-26-5 & \text{CAPLUS} \\ 2,6\text{-Naphthalenedicarboxylic acid}, & 4-[[4-[8-[4-[4-[5-[4-[4-[6-[8-carboxy-4-[0,3-d-icarboxynheny]]axo]-1-naphthaleny]]axo]-5-hydroxy-7-au]fo-2-naphthaleny]]axino]-6-[(3,5-d-icarboxynheny]]axino]-1,3,5-triazin-2-y]]amino]heny]]-1,3,4-vaodaizaol-2-yl]pheny]]amino]-6-[(3,5-d-icarboxynheny]]axino]-1,3,5-triazin-2-yl]amino]-1-hydroxy-3,6-disulfo-2-naphthaleny]]axo]-5-(2-mathxaleny)]axo]-5-(2-mathxaleny)]axo]-5-(2-mathxaleny)]axo]-5-(2-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-5-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxaleny)]axo]-6-(3-(3-mathxal$ 

L4 ANSWER 16 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

PAGE 2-A

PAGE 3-A

C02H

L4 ANSWER 16 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

PAGE 2-B

L4 ANSWER 17 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1995:721482 CAPLUS
123:289596
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123:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ٨ 19950418 19930930 19930930 JP 1993-267886 JP 1993-267886 INFO. :

MARPAT 123:289596

JP 07102181 PRIORITY APPLN. OTHER SOURCE(S): GRAPHIC IMAGE:

ARSTRACT: The dyes, for cellulose, are (salts of) 1 [A1, A2 = (un)substituted phenylene, naphthylene: R1, R2 = H, lower alkyl: X = CH:CH2 or precursor: Z = (un)substituted anino, OH, OR3: R3 = (un)substituted lower alkyl, (un)substituted Ph]. A cotton fabric was dyed in a bath containing monoazo dye I (X = C2H40SO3H, A1 = A2 = 1,4-C6H4, R1 = H, R2 = Et, Z = morpholino) at  $60^\circ$  for 1 h to obtain orange cloth with buildup property (1.2 g/0.3 g) 295.

169502-38-9P
RL: NF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(water-soluble orange monoszo dyes with two vinyl sulfone groups for dyeing of cellulosic fibers)
169502-38-9 CAPLUS
16 ΙŤ

L4 ANSWER IS OF 76 CAPLIS COPYRIGHT 2007 ACS on STN
ACCESSION NAMER: 1995:478248 CAPLIS
DOCLMENT NUMBER: 122:216574
AZO dyes, inks containing them, and recording method and instrument using the inks
Eida, Tsuyoshi: Nishiwaki, Osamu: Yamamoto, Takaou:
Mafune, Kumiko
Canon K. K., Japan
Eur. Pat. Appl., 70 pp.
COMMENT TYPE: Perxibit

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 626428	Al	19941130	EP 1994-107608	19940517
EP 626428 R: AT, BE, CH,	BI DE. DK.	20001011 . ES. FR. CE	, GR, IE, IT, LI, I	JJ. NI., PT. SE
IP 06329931	Α	19941129	IP 1993-116075	19930518
IP 06329944	Ä	19941129	JP 1993-116076	19930518
JP 06329932	A	19941129	JP 1993-116185	19930518
JP 06329945	A	19941129	JP 1993-116186	19930518
US 5466282	A	19951114	US 1994-241592	19940512
AT 196917	Ţ	20001015	AT 1994-107608	19940517
PRIORITY APPLN. INFO.:			JP 1993-116075	A 19930518
•			JP 1993-116076	A 19930518
			JP 1993-116185	A 19930518
			JP 1993-116186	A 19930518
OTHER SOURCE (S):	MARPAT	122:216574		

OTHER SOURCE(S): GRAPHIC IMAGE:

ABSTRACT:
The map dye contains a structural unit XY(R1) (R2) (R3)k [R1 is N(CH2CH2OH) 2.
NICH2CH2OH, amino acid residue: R2 is H, OH, NH2. CN, Oxo, N(CH2CH2OH) 2.
NICH2CH2OH, amino acid residue: R3 is H, OH, NH2. CN, Oxo: X is a linking
MCH2CH2OH, amino acid residue: R3 is H, OH, NH2. CN, Oxo: X is a linking
group: Y is a 6-membered ring containing 2-3 N: k = 0, 1]. Inks containing these dyes
provide inages with high optical d. and negligible feathering of dots, permit
fast fixing, and are waterfast when used in copying on plain paper. Thus,
2.4-Mc2CR6HSNH2 was disactized and coupled with H acid under alkaline conditions,
and the product was condensed consecutively with cyanuric chloride and glycine
to give 1. An ink formulation comprised diethylene glycol 15, 2-pyrrolidinone
5, EtOH 3, I 3, and water 74 weight%, adjusted to pH 9.0-9.5. ABSTRACT:

L4 ANSWER 17 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

L4 ANSWER 18 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

HO-- CH2-- CH2ио-сн<sub>2</sub>-сн<sub>2</sub>

●3 NH3

L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1994:485698 CAPLUS
11TLE:
11TL

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 538785 EP 538785	A2 A3	19930428 19930811	EP 1992-117908	_	19921020
EP 538785 R: BE, CH, DE IN 179027	, ES, FR	19970409 ; GB, 1T, 1.1 19970809	I, NL IN 1992~CA653		19920910
US 5231172 BR 9204125	Ã	19930727 19930504	US 1992-964516 BR 1992-4125		19921021
JP 05295285 IN 178305	A A I	19931109 19970322	JP 1992-284719 IN 1992-CA777		19921022 19921023
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GRAPHIC IMAGE:	MARPAT	121:85698	DE 1991-4134892	٨	19911023

$$\left[\begin{array}{c} x \\ y \\ y \\ z \end{array}\right]_{z}$$

ABSTRACT:
The dyes (I: R = H, optionally substituted Cl-4 alkyl: X = sulfonamido: Y = amino group containing vinyl sulfone or precursor: Z = chromophore such as azo, anthraquinone, phthalocyanine, formazan, dioxazine, etc.; n = 1-2) are obtained for use on Oll or CON1 group-containing fabrics. Thus, 7-maino-4-hydroxy-3-(4-methoxy-2-sulfophenylazo)-2-naphthalenesulfonic acid was condensed with 3-HIO3SOCH2CH2SO2CGHMANIZ to give a dye (Amax 500 nm) providing fast brillinnt scarlet shades.

liant scarlet shades.

156108-22-4P 156108-50-8P 156108-51-9P
156108-52-0P 156108-53-1P 156108-54-2P
156108-55-3P 156108-55-4P 156108-57-5P
156108-58-7P 156108-60-0P
156108-58-7P 156108-60-0P
156108-61-1P 157654-34-7P 157654-35-8P
RL: UMF (Industrial manufacture): PREP (Preparation)
(preparation of, as orange dye for cotton)
156108-22-4 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[methyl]4-[[methylsulfonyl]naino]-6-[[3-[[2-[sulfooxy]ethyl]sulfonyl]phenyl]amino]-1,3.5-triazin-2-yl]amino]-3-sulfo-2-maphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

- CH2- OSO3H

| 156108-51-9 CAPLUS | 1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-[(ethylsulfonyl)amino]-6-[[4-[[2-(sulfoxy)-thyl]sulfonyl]phenyl]amino]-1,3,5-trimzin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

- CH2- OSO3H

156108-52-0 CAPLUS

1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[[4-[(phenylsulfonyl)amino]-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]
1,3,5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAMEY)

L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

 $\label{local-problem} \begin{tabular}{ll} $156108-50-8 & CAPLUS \\ 1,5-Naphthalened|sulfonic acid. $2-[[1-hydroxy-6-[[4-[(acht)]sulfony]]spino]-6-[[4-[[2-(sulfooxy)sthy]]sulfony]]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9Cl) (CA INDEX NAME) \\ \end{tabular}$ 

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L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

-- CH2- OSO3H

156108-53-1 CAPLUS

1.5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[[4-[(methylsulfonyl]amino]-6-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]1.3.5-rriezin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX MAME)

PAGE 1-A

PAGE 1-B

- CH2-0S03H

156108-54-2 CAPLUS
1.5-Naphtha lenedisulfonic acid. 2-[[6-[[4-[(ethylsulfonyl)amino]-6-[[3-[[2-(sulfoxxy)ethyl]sulfonyl]]amino]-1-hydroxy-

ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN 3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME) (Continued)

PAGE 1-B

-- CH2-- OSO3H

156108-55-3 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[[4-[[heny]sulfony]]amino]-6-[[3-[[2-(sulfooxy)ethy]]sulfony]]phenyl]amino]-1,3,5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

PAGE 1-B

— CH2- ОSО3H

ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

| 156108-58-6 CAPLUS | 1.5-Naphthalenedisulfonic acid. 2-[[1-hydroxy-6-[[4-[(phenylsulfonyl)amino]-6-[[3-[[2-(sulfony)]sulfonyl]propyl]amino]-1, J. 5-trimzin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9Cl) (CA INDEX NAME)

PAGE 1-B

 $\label{eq:continuous} \begin{tabular}{ll} $156108-59-7 & CAPLUS \\ 1.5-Naphtha lened is ulfonic acid, $2-[\{6-[\{4-[(ethylsu]fony])anino]-6-[\{2-\{4-[(2-tayloxy)ethyl]sulfony]\}phenyl]ethyl]anino]-1, 3.5-triazin-2-yl]anino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME) \\ \end{tabular}$ 

ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
155108-55-4 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[[4[(acith/sulfonyl)amino]-6-[[3-[[2-(aulfooxy)ethy]]sulfonyl]propyl]amino]1,3,5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX
MAME)

$$\begin{array}{c} \text{HO}_{3}\text{SO-CH}_{2}\text{-CH}_{2}\text{-CH}_{2} \\ \end{array} \begin{array}{c} \text{(CH}_{2})_{3}\text{-NH} \\ \text{NH} \\ \end{array} \begin{array}{c} \text{NH} \\ \text{NH} \\ \end{array} \begin{array}{c} \text{NH} \\ \text{SO}_{3}\text{H} \\ \end{array}$$

PAGE 1-B

156108-57-5 CAPLUS .
1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-[[(ethylsulfonyl)amino]-6-[[3-[[2-(sulfoxyy-6+hy]]sulfonyl]propyl]amino]-1, 3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

PAGE 1-A

L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

 $\label{eq:continuous} \begin{tabular}{ll} 156108-60-0 & CAPLUS \\ 1.5-Naphthalemedisulfonic acid, $2-[\{1-hydroxy-6-[\{4-\{(a-thylanlfony)\}amino]-6-[\{2-[4-\{\{2-(sulfooxy)ethyl]sulfony]\}phenyl]ethyl]amino]-1, 3.5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]szo]- (9CI) & (CAINDEX NAME). \end{tabular}$ 

PAGE 1-A

PAGE 1-B

156108-61-1 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-[[4-[[hehy] sulfony]]pheny]]ethyl
[mino]-1,3,5-[riazin-2-y]]amino]-3-sulfo-2-naphthaleny]]ezo]- (9C1)
(CA
INDEX NAME)

ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

PAGE 1-A

157654-34-7 CAPLUS
1,5-Maphthalenedisulfonic acid, 2-[[1-hydroxy-6-[methy][4-[(methylsulfony])amino]-6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-y]lamino]-3-aulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 20 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1994:56676 CAPLUS
120:56676
TITLE:
INVERTOR (S):
PATENT ASSIGNEE(S):
SOURCE:
CODEN: EPXXDW
DOCUMENT TYPE:
LANGLAGE:
FAMILY ACC. NIM. COUNT:
FAMI

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

***************************************					
PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 548795 EP 548795	A2 A3	19930630 19931027	EP 1992-121462		19921217
EP 548795 R: BE, CH, DE,	B1 ES. FR	19970709 . GB. IT. LI	I. NL. PT		
BR 9205039	A ···	19930622	BR 1992-5039		19921217
ES 2104805	T3	19971016	ES 1992-121462		19921217
US 5334709	A	19940802	US 1992-993360		19921218
KR 212341	Bl	19990802	KR 1992-24772		19921219
IP 05345863	A	19931227	IP 1992-340645		19921221
PRIORITY APPLN. INFO.:			DE 1991-4142420	A	19911220
			DE 1992-4204599	A	19920215
			DE 1992-4205326	A	19920221
OTHER SOURCE(S):	MARPAT	120:56676			

GRAPHIC IMAGE:

ABSTRACT:
The dyes 1 [1 = direct link, N-containing connecting group: Q1, Q2 = organic group: R = H, (un)substituted C1-4 alkyl: X = direct bond, organic connecting group: Y = vinyl or precursor: Z = dye residue: a, n, p = 1, 2) are obtained for dyeing of cellulosics in Tast shades. Thus, McOH, cyanuric chloride, and 3-H2NC6H4SO3H were condensed, and the resulting monochlorotriazine was condensed with 3.6-disulfo-1-amino-8-naphthol. The product was coupled with diazotized 4-HOSSOCH2CH2SO2C6HMNH2 to provide a dye (Amax 520 nm), fast red on textiles.

| 151408-05-6P | RL: NWF (Industrial manufacture): PREP (Preparation) | Oreparation of, as orange dye for cellulosic fibers) | 151408-05-8 CAPUS | L-Alanine, N-[4-[[5-hydroxy-T-au]fo-6-[[1-au]fo-6-[[2-(au]fooxy)ethy]]sulfony|]-2-naphthaleny|]azo|-2-naphthaleny|]amino]-6-[(3-sulfopheny|)amino]-1, 3, 5-triazin-2-yl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L4 ANSWER 19 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

157654-35-8 CAPLUS

1.5-Naphthalenedisulfonic acid. 2-[[1-hydroxy-6-[methyl[4-[[tpheny]sulfony]]amino]-6-[[4-[[2-[sulfooxy]ethyl]]sulfony]]phenyl]amino]
1.3.5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L4 ANSWER 20 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

L4 ANSWER 21 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION MIMBER:
1993:497957 CAPLUS
1993:497957 CAPLUS
11993:497957 CAPLU

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	_	DATE
EP 514001 R: AT. BE. CH.	A1	19921119	EP 1992-303299		19920414
US 5359043 CA 2066844	A Al	19941025	US 1992-871473 CA 1992-2066844		19920421 19920422
PRIORITY APPLN, INFO.: OTHER SOURCE(S): GRAPHIC IMAGE:	MARPAT	119:97957	GB 1991-10689	۸	19910517

ABSTRACT:
The dyes contain ≥1 group Q [R1 = labile atom or group; R2, R3 = nonchromophoric (un)substituted aryl or alkyl]. Thus, MeSO2MDMe was condensed with cyanuric chloride, and the product was condensed with 3-ureido-4-(3,6,8-trisulfo-2-naphthylazo)aniline to give reddish yellow I as the K salt.

149438-52-88
RI: PREP (Preparation)
(manufacture of, as water-soluble fiber-reactive dye)
149438-52-8 CAPLIS
Pyridinium, 4-carboxy-1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]methylmaino[-6-[methyl (methyl sulfonyl)amino]-1, 3, 5-triazin-2-yl]-, inner all (9Cl) (CA NDEX NAME)

L4 ANSWER 22 OF 76 CAPLUS COVERIGHT 2007 ACS on STN
ACCESSION NUMBER: 1993:193627 CAPLUS
TITLE: 18:193627
TITLE: 18:193627
Ato dyes with two reactive triazine rings, their use and phenylenediamsine intermediates for their manufacture
Renfrex Andrew Hunter Morrist Taylor, John Anthony Imperial Chemical Industries PLC, UK
EUR. Pat. Appl., 10 pp.
COUNT: EPXXDW

Patent English

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 522716 EP 522716		19930113	EP 1992-305395	_	19920612
R: AT, BE, CH, CA 2072482 JP 05222304 US 5306813	A1 A	FR, GB, IT 19930110 19930831 19940426	LI, .NL, PT CA 1992-2072482 JP 1992-177931 US 1993-8084		19920626 19920706 19930122
PRIORITY APPLN. INFO.:			G8 1991-14837 US 1992-908393	A B3	19910709 19920706
OTHER SOURCE(S):	MARPAT	118:193627			

ABSTRACT:
Reactive dyes for cotton have the free acid form I [1, = divalent organic group: Q = (un)substituted Ph or naphthyl: R = H, (un)substituted alkyl or aryl: R1-R4 = H, (un)substituted Ph or naphthyl: R2 = H, (un)substituted Alkyl or aryl: R1-R4 = H, (un)substituted phenylene or naphthylenel. Thus, hydrogenation of amphenylene or naphthylenel in a cotton gave N, -disopropyl-m-phenylened manine, which was condensed with 7-[(dichloro-s-triazinyl)methylamino]-3-(1,5-disulfo-2-naphthylamo)-4-hydroxy-2-naphthylamolesulfonic acid, followed by consecutive treatment with cyanuric chloride. PhNNMe, isonicotinic acid, and NaCl to give the tri-Na salt of I [L = m-C6H4, Q = 1, 5, 2-(10035) ZC10H5, R = Ph, R1 = R4 = Me, R2 = R3 = iso-Pr, X = X1 = 4-C02H, Z = 1-hydroxy-3-sulfo-2.6-naphthylene].

147236-63-3P
RL: NWF (Industrial manufacture): PREP (Preparation)
(preparation of, as orange dye for cotton)
147236-63-3 CAPIL:
Pyridinium, 4-carboxy-1-[4-[[3-[[4-(4-carboxpyridinio)-6-[[6-[(1,5-disulfo-2-naphthaleny]]aso]-5-hydroxy-7-sulfo-2-naphthaleny]]methylamino]-

ANSWER 21 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

ANSWER 22 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 1.3.5-triazin-2-yl](1-methylethyl)amino]phenyl](1-methylethyl)amino]-6-(methylphenylmeino)-1.3.5-triazin-2-yl]-, bis(inner salt), trisodium salt (GCI) (CA INDEX NAME)

PAGE 2-A

L4 ANSWER 23 0F 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
INVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:
DATENT ASSIGNEE(S):
DOCUMENT TYPE:
DOCUMENT TYPE:
DATENT ASSIGNEE(S):
DOCUMENT TYPE:
DATENT ASSIGNEE(S):
DATENT ASSIGNEE(S):
Jpn. Kokai Tokkyo Koho, 11 pp.
COBEX: JKXAP
Patent
Japanese

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 04108867 PRIORITY APPLN. INFO.: OTHER SOURCE(S): GRAPHIC IMAGE: A 19920409 19900829 19900829 JP 1990-231537 JP 1990-231537 MARPAT 117:152727

ABSTRACT:
Compns. for dyeing or printing cellulosic fibers, with good solubility in water and aqueous alkali, contain reactive dyes I [A = (un) substituted phenylene or naphthylene; one of 81 and 82 is (un) substituted phenylene, while the other is (sulfo) naphthylene; R1, R2 = 11, (un) substituted lower alky1: X = MRSR4, ORS; R3-RS = R, (un) substituted alkyl or Ph or naphthyl; Z1, Z2 = vinyl, C1C2C12L: L = alkali-removable group) and alkylnaphthalenesulfonic actd-HCID condensates. A level red cotton dyeing was obtained using a composition from a reactive dye of free-acid form 11 65, methylnaphthalenesulfonic actd-HCID condensate Na salt 34, and mineral oil emulsion 1 part.

11

IT · 143462-65-1 RL: USES (Uses)

L4 ANSWER 24 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
115:51844
NTENTOR(S):
NVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
PATENT INFORMATION:
PATENT INFORMATION:

CAPPUS COPYRIGHT 2007 ACS on STN
1991:451844 CAPLUS
115:51844
Vater-soluble fiber-reactive dyes containing
(cyanomaino) triazine residues
Buech, Holger Michael; Heachle, Reinhard; Springer,
Hartaut
Hocehst A.—G., Germany
PCT Int. Appl., 110 pp.
CODEN: PIXXXD2
Patent INFORMATION:
2

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUN. COUNT: PATENT INFORMATION:

PATE	IT NO.			KINI	)	DATE		APPLICATION NO.		DATE
WO 90	13604			AI		19901115		WO 1990-EP715		19900504
	r: BR.	DE.	IP.	KR.	US					
						ES FR	GB	IT, LU, NL, SE		
	15306		,	Al				DE 1989-3915306		19890510
	30704			Al		19910321		DE 1989-3930704		19890914
EP 41				Äİ		19920226		EP 1990-906926		19900504
EP 4				Вi		19931229				
		RF	CH		FS	FR. GB.	IT	1.f NI		
	07365	DC.	· · · ·	Ă,	-			BR 1990-7365		19900504
	1505174			Ϋ́		19920910		IP 1990-506591		19900504
	113089			В		19951206		J. 1550 500551		
AT 99		,		Ϋ́		19940115		AT 1990-906926		19900504
	27475			Á		19930713		US 1992-776305		19920110
PRIORITY		INCO		-		15550115		DE 1989-3915306	A	19890510
TRIORIII /	11 1 121.	I I V	٠.					DE 1989-3930704	Ä	19890914
								EP 1990-906926	Â	19900504
								WO 1990-FP715	Ŷ	19900504
OTHER COLL	CE (C)			CASE	)C4	CT 115-51		MADDAT INE-ENDAA	•	13300304

OTHER SOURCE(S): GRAPHIC IMAGE:

CASREACT 115:51844: MARPAT 115:51844

ABSTRACT:
The title dyes I [G = chromophoric residue: Q = maino group-containing
fiber-reactive residue: R = H. (un)substituted Cl-4 alkyl: n = 1,2], useful for
dyeing or printing of hydroxyl and/or carbonaside group-containing fabrics, are
prepared Thus, 3-(2'-sulfo-4'-methoxyphenylazo)-4-hydroxy-7-maino-2-naphthalene

ANSWER 23 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (dye, contg. alkylnaphthalenesulfonic acid-formaldehyde condensate, for 143462-65-1 CAPLUS 1-Naphthalenesulfonic acid, 2-[[1-hydroxy-3-sulfo-6-[[4-[13-[[2-(sulfooxy)ethyl]sulfony]]phenyl]amino]-6-[(3-sulfophenyl)amino]-1, 3, 5-triazin-2-y-l]amino]-2-naphthalenyl]azo]-6-[[2-(sulfooxy)ethyl]sulfonyl]-(9CI) (CA INDEX NAME)

PAGE 1-B

CH2-CH2-OSO3H

1.4 ANSWER 24 0F 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) sulfonic acid was condensed with cyanuric chloride and cyanamide in the presence of NaOH, and condensed with 3-( $\beta$ -sulfatoethylsulfonyl)aniline, forming 11, Amax(H2O) 500 nm, which dyed cotton fabrics fast scarlet-red shades.

134947-53-8P
RL: PREP (Preparation)
(manufacture of, as orange reactive dye)
134947-53-8 CAPLIS
1.5-Maphthalenedisulfonic acid. 2-[[6-[[4-(cyanoamino)-6-[[3-[[2-(sulfoxy)-disulfony]]phenyl]amino]-1.3,5-triazin-2-y]|methylamino]-1-hydroxy-d-sulfo-2-naphthalenyl]azo]-, tetrasodium sait (9C1) (CA INDEX MAME)

PAGE 1-A

PAGE 1-B

L4 ANSWER 25 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
11991:451843 CAPLUS
115:51843
115:51843
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11

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.		KIND	DATE	APPLICATION NO.		DATE
DE 3915306		Al	19901115	DE 1989-3915306	_	19890510
WO 9013604		A1	19901115	WO 1990-EP715		19900504
	JP.					
	ČH.		ES. FR.	GB, IT, LU, NL, SE		
EP 471702		Al	19920226	EP 1990-906926		19900504
EP 471702		B1	19931229			
R: AT, BE,	CH.	DE. ES	FR. GB.	IT. LI. NI.		
BR 9007365		Α	19920512			19900504
JP 04505174		T	19920910	IP 1990-506591		19900504
JP 07113089		B	19951206			
AT 99350		Ť	19940115	AT 1990~906926		19900504
ES 2062522		Ť3	19941216	ES 1990-906926		19900504
US 5227475		Ä	19930713	US 1992-776305		19920110
PRIORITY APPLN. INFO	. :		**********	DE 1989-3915306	A	19890510
				DE 1989-3930704	Ä	19890914
				EP 1990-906926	Ä	19900504
				WO 1990-EP715	w	19900504

OTHER SOURCE(S): GRAPHIC IMAGE:

MARPAT 115:51843

ABSINGUL:
The lile dyes I [G = chromophoric residue: Q = maino group-containing fiber-reactive residue: R = H. (un)substituted Cl-4 alkyl: n = 1, 2], useful for dyeing or printing of hydroxyl or carbonamide group-containing fabrics, are

L4 ANSWER 26 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
DOCUMENT NUMBER:
15:31091
Reactive dyes for cellulose. An unexpected hydrolysis product of a trimzinyl reactive dye with a 3-carboxypyridine (nicotinic acid) leaving group Taylor, J. A.; Renfrew, A. H. M.
Fine Chem. Res. Cent., ICI Colours and Fine Chem., Blackley/Manchester, NS 930A, UK
JOURNAL OF COLOR. JSDCAA: ISSN: 0037-9859
LANGUAGE:
L

OCONENT TYPE: JOURAL SINCE AS 15 ST 
IT

134620-26-IP
RL: FORM (Formation, nonpreparative): PREP (Preparation)
(formation of, in hydrolysis of nicotinic acid derivative)
134620-26-I CAPLUS
1,5-Haphthalenedisulfonic acid, 2-[6-[4-amino-6-(methylphenylamino)-1,3-t-rizain-2-y]methylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo].
trisodium sali (9CI) (CA INDEX NAME)

134620-10-3 134620-25-0
RL: RCT (Reactant): RACT (Reactant or reagent)
(hydrolysis of, maino product in, dyeing of cotton in relation to)
134620-10-3 CAPLUS
Pyridinium, 3-carboxy-1-[4-[[6-[(1,5-disulfo-2-maphthalenyl)azo]-5-hydroxy-7-sulfo-2-maphthalenyl]methylanino|-6-(methylphenylanino)-1, 3,5-triazin-2-yl]- inner salt, disodlussalt (SCI) (CA NDEEN XMME)

L4 ANSWER 25 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) propd. Thus, cyanuric chloride was condensed with cyanamide and 4-hydroxy-7-Genthylamio-2-naphthalenesulforuc acid in NaOH at pH 8.5-9, the condensate coupled with diazotized 2-maino-1,5-naphthalenedisulfonic acid, and the intermediate condensed with 3-(P-sulfatoethylsulfonyl)aniline, forming 11, Amax 490 mm, which dyed colton fabrics fast orange shades.

| 134947-53-8P RL: PREP (Preparation) (manufacture of, as water-soluble orange reactive dye) | 134947-53-8 CAPUS | 1.5-Maphthalenedisulfonic acid, 2-[[6-[[4-(cyanoamino)-6-[[3-[[2-(sulfooxy)-cthyl]sulfonyl]phenyl]amino]-1, 3.5-trinzin-2-yl]methylamino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]-, tetrasodium sait (9CI) (CA INDEX MAME)

PAGE 1-A

$$\begin{array}{c} \text{HO}_{3}\text{SO}-\text{CH}_{2}-\text{CH}_{2} \\ \end{array} \begin{array}{c} \text{NB} \\ \text{NC}-\text{NH} \end{array} \begin{array}{c} \text{Ne} \\ \text{NC}-\text{NH} \\ \end{array}$$

PAGE 1-B

L4 ANSWER 26 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

●2 Na

134620-25-0 CAPLUS
Pyridinium, 3-(aminocarbonyl)-1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]acthylomino]-6-(acthylphenylamino)-1, 3, 5-triazin-2-yl]-, disodium salt (9Cl) (CA INDEX NAME)

●2 Na

ANSWER 26 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

●2 Na

■2 Na

134620-24-9 CAPLUS
Pyridinium, 3-(carboxymethyl)-1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5hydroxy-7-sulfo-2-naphthalenyl]methylamino]-6-(methylphenylamino)-1, 3, 5triazin-2-yl]-, inner salt, disodium salt (9Ct) (CA INDEX NAME)

L4 ANSWER 27 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1991:230678 CAPLUS
117LE:
117L

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 03007769 JP 2534909	A B2	19910114	JP 1989-142123	19890606
PRIORITY APPLN. INFO.: OTHER SOURCE (S): GRAPHIC IMAGE:		114:230678	JP 1989-142123	19890606

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:

lor II (R = H, sulfo, Me: RI = mliphatic, aromatic amine residue: R2 = H, Me, Et: R3 = H, Me) is quaternized with III (R4 = H, maino: R4CO at the 3- or 4-position), and the resulting pyridinium salts are subjected to diazo coupling to obtain reactive azo dyes IV and V (D) = coupling component residue: D2 = diazo component residue). In this process, the quaternization is carried out during a short reaction time at a low temperature. Thus, 4-hydroxy-7-maino-2-naphthalenesulfonic acid was condensed with cynuric chloride.

4-chloroaniline-3-sulfonic acid, and nicolinic acid, and the pyridinium salt intermedials was coupled with diazolized 4-(sethoxy) aniline-2-sulfonic acid and salted to give VI, bright scarlet on cotton.

133971-63-8P
RL: PREP (Preparation)
(manufacture of, as dyes for cotton)
133971-63-8 CAPLUS
Pyridinium, 3-carboxy-1-[4-[[6-[(4.8-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]methylamino]-6-(methylphenylamino)-1, 3, 5-trinzin-2-yl]-, inner salı (9C1) (CA INDEX NAME)

ANSWER 26 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

$$-o_2c-cH_2 \xrightarrow{\text{Me}} N \xrightarrow{\text{Ne}} N \xrightarrow{\text{Ne}} N \xrightarrow{\text{So}_3H} So_3H$$

■2 Na

 $\label{eq:continuous} \begin{array}{ll} 134644-72-7 & \text{CAPLUS} \\ \text{Pyridinium.} & 1-[4-[[6-[(1,5-disu)fo-2-naphtha]enyl]]azo]-5-hydroxy-7-sulfo-2-naphthalenyl]nethylamino]-6-(methylphenylamino)-1, 3, 5-triazin-2-y1]-, disodium salt (9Cl) & (CA INDEX NAME) \\ \end{array}$ 

●2 Na

L4 ANSWER 28 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1991: 83891 CAPLUS
TITLE: 14:83891
NVENTOR(S): PATENT ASSIGNEE(S): SOURCE: CAPLUS
POOLUBENT TYPE: PROPERTY TYPE: CODEN: EPXXDW

ROCHEST TYPE: CODEN: EPXXDW

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE A1 19901031 B1 19950712 DE, ES, FR, GB, G A 19910925 A1 19990424 A 19991025 B2 19911128 19901024 EP 395207 EP 395207 R: AT, ZA 9002065 IN 182521 AU 9052067 AU 617603 CA 2014718 EP 1990-302653 19900313 GR, 1T, L1, NL, SE ZA 1990-2065 19900316 IN 1990-DE273 AU 1990-52067 19900320 19900321 19900417 19900423 19900424 19890424 CA 2014718
BR 9001876
JP 02300265
PRIORITY APPLN.
OTHER SOURCE(S):

MARPAT 114:83891

ABSTRACT:
The title dyes | [A = diazo component residue: D = H, C1, C1-4 mlkoxy, SO3H, C1-4 mlky!: D1 = 0H, N(R1)R2: R1, R2 = H, (un) substituted C510 mlky! or alkeny! residue: Q = H, (un) substituted C510 mlky! or alkeny! residue: O = H, (un) substituted C510 mlky! or alkeny! residue: T = (un) substituted C510 mlky! or alkeny! residue: Z = (un) substituted ary! residue: n = Q, 1), usefu! for dyeing hydroxy! or amino group-containing textiles, are prepared Thus, 1-hydroxy-2-(1, 5-diasulfonaphth-2-ylazo)-6-N-methy! amino-3-naphthalenesulfonic acid was reacted with cyanuric chloride and N-methy! amiline, and intermediate reacted with isonicotinic acid, producing 1-hydroxy-2-(1, 5-disulfonaphth-2-ylazo)-6-N-[[4-(4-carboxypyridinium)-6-N-methy!-N-phenylamino-5-triazin-2-ylazo)-6-N-[4-(4-carboxypyridinium)-6-N-methy!-N-phenylamino-5-triazin-2-ylazo)-6-N-[4-(4-carboxypyridinium)-6-N-methy!-N-phenylamino-5-triazin-2-ylazo)-6-N-[4-(4-carboxypyridinium)-6-N-methy!-N-phenylamino-5-triazin-2-ylazo)-6-N-[4-(4-carboxypyridinium)-6-N-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-5-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylamino-1-ylazo)-6-N-methy!-N-phenylami

| 132060-26-5P RL: PREP (Preparation) (manufacture of, as reactive orange dye) 132060-26-5 CAPILS Pyridinium, 4-carboxy-1-[4-[[6-[(1,5-disu]fo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]aethyl amino]-6-(aethylphenylamino)-1, 3, 5-triazin-2-yl]-. inner sali (9Cl) (CA INDER MAME)

L4 ANSWER 28 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 29 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) condensation product of cyanuric chloride with 1.3-phenylenediamine-4-sulfonic acid and 4-(p-hydroxyethylsulfonyl)-1-(p-aminochyl)benzene, the mixt. neutralized with NaHCO3, and salted out with NaCl, producing II. Awax S94 mm, which dyed cotton fabrics fast navy blue shades.

130783-94-7P
RL: PREP (Preparation)
(annufacture of, as orange reactive dye)
130783-94-7 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[6-[[4,6-bis[[2-[4-[[2-(sulfoxxy-cthyl]sulfonyl]phenyl]ethyl]amino]-1, 3,5-triezin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

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PAGE 1-B

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L4 ANSWER 29 OF 76
ACCESSION NUMBER:
DOCLOWENT NUMBER:
1TIE:
INVENTOR(S):
SOURCE:
DOCLOWENT TYPE:
LANGLAGE:
ASSIGNEE (S):
SOURCE:
DOCLOWENT TYPE:
LANGLAGE:
FAMILY ACC. NIM. COUNT:
FAMILY ACC. NIM. C DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE DE 3843605 AI 1990062R
EP 374911 AI 19900627
R: RE CH, DE, ES, FR, GR, IT, LI
US 5128455 A 19920707
JP 02022461 A 19900905
RR 8906703 A 1990091
PRIORITY APPLN, INFO:
OTHER SOURCE (S):
MARPAT 114:44934
GRAPHIC IMAGE: 19881223 19891221 DE 1988-3843605 EP 1989-123639 US 1989-454373 JP 1989-331434 BR 1989-6703

DE 1988-3843605

OTHER SOURCE (S

ABSTRACT:
The tille dyes, useful for dyeing or printing of hydroxyl and/or carbonamide group-containing fabrics, contain ≥1 l R = H, SO3H; R1, R2 = H, C1-4 alkyl; Y = CH:CH2, CH2CH2X; X = alkali-cleavable substituent; Z = OH, (un)substituted amino group or heterocyclic amine substituent]. 4-Mainobenzenesulfonic acid was diazotized, coupled with 1-maino-8-hydroxy-3, 6-maphthalenedisulfonic acid to form a monoazo intermediate which was coupled with the diazotized

L4 ANSWER 30 0F 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1990:407999 CAPLUS
113:7999
ITILE:
Reactive dyes for cellulose. Concurrent methoxide-hydroxide reactions of triazinyl reactive systems: a model system for assessment of potential fixation efficiency.

AUTHOR(S):
CORPORATE SOURCE:
LC ALL M. M. Taylor, J. A.
ICI PLC, Colours and Fine Chem., Manchester, M9 3DA, UK

UK
Journal of the Society of Dyers and Colourists (1989), 105(12), 441-5
CODEN: JSDCAA; ISSN: 0037-9859
Journal English SOURCE:

DOCUMENT TYPE: LANGUAGE: GRAPHIC IMAGE:

ARSTRACT: The reactive dyes I (X = Cl, F, SO3H) were prepared in addition to the reaction product of DABCO with I (X = Cl) and were added to an aqueous MeOH solution in the presence of base and the chemical reactivity to MeD- attack for all 4 compds. was determined from the product ratio. Measurements were made at  $40^\circ$  and under conditions of equal reactivity to hydroxide, as determined from Arrhenius plots. The selectivity results were in agreement with empirical observations for the fixation efficiency to cellulose of dyes carrying these reactive groups.

127538-07-2P RL: RCT (Reactant): SPN (Synthetic preparation): PREP (Preparation): RACT (Reactant or reagent) (preparation and solvolysis of, fixation assessment in relation to) 127538-07-2 CAPULS 4-Aza-1-azoniabicyclo[2.2.2]octane, 1-[4-[[6-[(1.5-disulfo-2-naphthaleny1]azo]-5-hydroxy-7-sulfo-2-naphthaleny1]azol-5-hydroxy-7-sulfo-2-naphthaleny1]azol-6-(methylphenylazino)-1.3,5-triazin-2-y1]-, inner salt, disodiwa salt (9C1) (CA INDEX NAME)

1.4 ANSWER 30 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L4 ANSWER 31 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

● C1-

PAGE 1-B

113278-00-5 CAPLUS
Pyridinium, 1-(4,6-bis[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7sulfo-2-naphthalenyl]amino]-1,3,5-trinzin-2-yl]-4-carboxy-, chloride (9CI)
(CA INDEX NAME)

• c1-

L4 ANSWER 31 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1198:635001 CAPLUS
1198:635001 CAPLUS
111:23650mpounds for dyeing cellulosic fibers
112:23650mpounds for d

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62250060 JP 06019044	A B	19871030 19940316	JP 1986-94363	19860423
PRIORITY APPLN. INFO.: GRAPHIC IMAGE:	ь	15540310	JP 1986-94363	19860423

### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
Cellulosic fibers are dyed dark orange or scarlet with good perspiration and Cl
fastness by using water-soluble disazo compds. 1 (Dz = benzene or naphthalene
ring, may be substituted with Me, OMo, or SOSH; R = H, Me, CONNIZ, COZH; A =
anion). Thus, disazo compound IV, prepared by condensation of monoazo compds, III
and 7-anion-4-hydrovy-7-[4-methoxy-2-sulfophenyl) asol-2-anphthalenesulfonic
acid, was treated with nicotinic acid to give a disazo compound I, Dz = Q, R =
3-COZH, A = Cl (II) (Baza 495 ma in H2O), and a cotton/polyester blended
fabric was dyed in an aqueous solution containing II, disperse dye Na2SO4, and a buffer at
130°, washed, soaped, washed, and dried to give an evenly dyed dark
scarlet fabric with good perspiration and Cl fastness.

Scarlet fabric vin good perspiration and of lastness.

IT 113277-99-9P 113278-00-5P 113278-03-8P
RL: PREP (Preparation)
(manufacture of, for dyeing cellulosic fabric with good perspiration and
RN 113277-99-9 CAPILIS
CN Pyridinium 1-[4.6-bis[[5-hydroxy-7-sulfo-6-[(1-sulfo-2-naphthaleny])azo]2-naphthaleny]]umino]-1.3,5-triazin-2-yl]-3-carboxy-, chloride (9C1) (CA INDEX NAME)

L4 ANSWER 31 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

 $\label{local-problem} \begin{array}{lll} 113278-03-8 & CAPLUS \\ Pyridinium, & 1-\{4,6-bis[\{6-[(1,5-disu]fo-2-naphthaleny]\}azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1, 3,5-triazin-2-yl]-3-methyl-, chloride (9C1) (CA_INDEX_NAME) \\ \end{array}$ 

• c1-

PAGE 1-B

L4 ANSWER 32 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
11182:
11184 1352 CAPLUS
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11

DOCUMENT TYPE: Patent Japanese

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 63213574
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19880906 JP 1987-45960 JP 1987-45960 19870227 19870227 MARPAT 111:41352

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title compns. based on reactive dyes I [D = sulfo groups-containing organic dye residue: RI, R2, R3 = H, (un)substituted lower alkyl: BI, B2 = (un)substituted phenylene, naphthylene: Z1, Z2 = vinyl, CH2H2L: L = alkali-removable group: n = 1-3] contain 0-30% buffer and had pH (in 20-fold water) 3-8. An aqueous solution containing 17 parts II was treated with 2.8 parts NaHZPO4. 2H2O, adjusted to pH 5.5 with 20% aqueous Na2CO3, and spray-dried to give a yellow dye composition storable >1 mo at 60°.

ANSWER 32 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 1-A

PAGE 1-B

— CH2— 0S03H

L4 ANSWER 33 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
110:194585 CAPLUS
110:194585 CAPL

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 63243387 PRIORITY APPLN. INFO. : OTHER SOURCE(S): GRAPHIC IMAGE: A 19881011 JP 1987-79298 JP 1987-79298 19870330 19870330 MARPAT 110:194585

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The litle dyeing is done using ≥1 1, 11, and 111 [D1, D2, D3 = sulfo group-containing organic dye residue: R1-8 = (un)substituted alkyl, H: B1-4 = (un)substituted plenylene, naphthylene: Z1-4 = vinyl, CHZCHZL: L = alkali-removable group: X = C1, Br. F. quaternary N-containing nonarom, or aromatic tertiary N compound residue: m, n, 1 = 1-3] at initial pli 95. which is increased to final value >11 with continuous addition of na alkali during dyeing. A cotton knit was dyed with 2:1 mixture of 1V (R = C1) at initial pli 8.5 which was resised to 12.1 with NoBH over 20 min at 60° to give deep reddish orange dyeing with good reproducibility and leveling.

ΙT

| 116818-02-1
| RL: USES (Uses)
| (dyeing by, of cotton, basicity controlling in, for improved reproducibility and labeling)
| 116818-02-1 (APULS) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4) | (15-4)

L4 ANSWER 33 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

- CH2- 0S03H

L4 ANSWER 34 0F 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1111.56099
ITILE:
INVENTOR(S):
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BOCUMENT TYPE:
LANGUAGE:
BOCUMENT TYPE:
LANGUAGE:
BOCOMENT TYPE:
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Language

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:	Paten	CODEN: JXXXAF Patent Japanese				
PATENT NO.	KIND	DATE	APPLICATION NO.	DATE		
JP 62132965 JP 06019042	A B	19870616 19940316	JP 1985-272603	19851205		
PRIORITY APPLN. 1NFO.: GRAPHIC IMAGE:	-	,,-	JP 1985-272603	19851205		

### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title dyes, which can be used for cellulosic and N-containing fibers in the one-bath-one-step dyeing of polyester blends, having the free-acid form 1 [M = H, alkali netal: R1 = H, halogen, lower alkyl, alkoxy, carboxy: R2 = H, lower alkyl, alkoxy, suffo: R3 = H, lower alkyl, alkoxy, usrido, acylamino, sulfo: R4 = H, lower alkyl: Z = halogen, pyridinio with or without D substituent, NRSXY:
D = COZM. CONNE: R5 = H, (un) substituted lower alkyl: Y = SOZCHICHEY.
EXCENDED: W = alkali-removable group: X = (un) substituted phenylene, naphthylene: w = 1-3: n = 0, 1: rings A and B could be naphthalene], are prepared Thus, Z-[4 (-kulfophenylazo)-2-sulfophenylazo]-fi-(4, 6-diffluoro-s-triazin-2-ylamino)-1-naphthol-3-sulfonic acid was condensed with 6-maino-2-[4-(4-sulfophenylazo)-fi-naphthol-3-sulfonic acid was condensed with 6-maino-2-[4-(4-sulfophenylazo)-fi-naphthol-3-sulfonic acid and salted out with KCl to give 11, which dyed cotton in a fast red shade.

IT 113275-81-3P
RI: PREP (Preparation)
(manufacture of, as reactive dye for one-bath-one-step dyeing of polyester fiber blends)
RN 113275-81-3 CAPLUS
C 2-Naphthalenesulfonic acid, 7,7'-[[6-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phen yl]amino]-1,3,5-triazine-2,4-diyl]diimino]bis[3-[[2-ethoxy-7-sulfo-4-[4-sulfophenyl)azo]-1-naphthalenyl]azo]-4-hydroxy- (9CI) (CA INDEX NAME)

L4 ANSWER 34 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 34 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

- S03H

Patent Japanese

L4 ANSWER 35 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
110:136910
Niver reactive dye compositions and dyeing and printing therevith
Harada, Nacki: Omura, Takashi: Imada, Kunihiko
Sumric:
DOCUMENT TYPE:
DOCUMENT TYPE:

CAPLUS COPYRIGHT 2007 ACS on STN
1989:136910 CAPLUS
110:136910 TAPLUS
110:136910 Therevith
Harada, Nacki: Omura, Takashi: Imada, Kunihiko
Sumitomo Chemical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 19 pp.
CODEN: JKXXAF
Patent

DATE

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. JP 63210170 JP 08003050 PRIORITY APPLN, INFO, : OTHER SOURCE(S):

DATE APPLICATION NO. KIND

19880831 19960117 JP 1987-44616 19870226 19870226 JP 1987-44616 MARPAT 110:136910 GRAPHIC IMAGE

11

ABSTRACT: The title compns., producing colton dyeings with excellent leveling and reproducibility, contain  $\ge 2$  of I [D = sulfo group-containing organic dveresidue: DI, D2 = (un)substituted phenylene, naphthylene: R = N(R2)D2SO2Z2: R1, R2, R3, Z1, Z2 = vinyl, CH2CH2L: L = alkali-removable group: n = 1-3], I (R = R2, R3, Z1, Z2 = vinyl, atom-containing tertiary N compound residue), and I (R = NR4R5: R4 = H, (un)substituted lower alkyl: R5 = (un)substituted Ph, naphthyl: A typical mixture producing level greenish-yellow cotton dyoing contained II (R = C1) and II (R =  $\alpha$ -NHC6H4SO2CH2CH2OSO3H) in a 1:1 ratio.

119043-49-1
RL: TEM (Technical or engineered material use): USES (Uses)
(dye mixts. containing, with good reproducibility and leveling, for cotton)
119043-49-1 CAPUS
1,5-Haphthalenedisulfonic acid, 2-[[6-[[4-[ethyl[3-[[2-

ANSWER 35 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (sulfooxylethyl|sulfonyl]phenyl]amino]-6-[(4-methylphenyl)amino]-1.3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

1.4 ANSWER 36 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued)

PAGE 1-B

-- CH2- OSO3H

L4 ANSWER 36 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1989: 116592 CAPLUS
TITLE: Cold batch dyeing of cellulosic fibers with reactive Cold batch dyeing of cellulosic fibers with reactive dyes Nishinaka, Masatake: Harada, Nacki: Imada, Kunihiko: Omura, Takashi Sumitomo Chemical Co., Ltd., Japan Jpn. Kokai Tokkyo Koho, 9 pp. CODEN: JKXXAF Patent Japanese INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. KIND DATE APPLICATION NO. DATE IP 63211380
PRIORITY APPLN. INFO,:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19880902 19870227 19870227

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

MARPAT 110:116592

ARSTRACT: Cellulosic fibers are dyed uniformly with good build-up, exhaustion, and acid hydrolysis fastness using reactive dyes having free acid form I [D = residue of organic dye having \$0.3H groups: RI-3 = H. (substituted lower alkyl: BI-2 = C6H4 which may be substituted with 1-2 Me. Et. MeO, EtO, Cl. Br. NO2, CO2H, and/or \$0.3H groups. naphthylene which may be substituted with \$0.3H groups: ZI-2 = vinyl. CHZCHZL: L = alkali-eliminating group: n = 1-3]. Thus, cotton broadcloth was padded in a dye bath prepared from reactive dye II. Na2SO4, and Na0H, sealed in polyethylene film, stored for 5 h at 20° or 5°, or 20 h at 5°, and then washed, soaped, and dried to give a fabric with exhaustion 100, 98, and 99%, resp.

IT

116818-02-1
RL: USES (Uses)
(for cold pad-batch dyeing of cellulosic fibers, with good exhaustion)
116818-02-1 CAPLUS
1,5-Kaphthalenedisulfonic acid, 2-[[6-[[4-[ethyl[3-[[2-(sulfoxy)-cthyl]aulfonyl]phenyl]amino]-6-[[3-[[2-(sulfoxy)-cthyl]aulfonyl]phenyl]amino]-1, 3,5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 37 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1989:116591 CAPLUS
1171LE:
1889:116591 CAPLUS
110:116591
Exhaust dyeing of cellulosic fibers with reactive dyes
Harada, Naoshi: landa, Kunihiko: Omura, Takashi
Sumitomo Chemical Co., Ltd., Japan
DOCUMENT TYPE:
DOCUMENT TYPE:

CAPLUS
1989:116591 CAPLUS
1989:116591 CAPLUS
1989:116591 CAPLUS
1989:116591 CAPLUS
1989:116591 CAPLUS
1989:116591 CAPLUS
1999:116591 
DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent

PATENT NO. KIND DATE APPLICATION NO. DATE JP 63211379
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19870227 19870227 Α. 19880902 JP 1987-45957 JP 1987-45957

MARPAT 110:116591

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
Cellulosic fibers are dyed by a single-bath method using reactive dyes I [D = residue of organic dye having SO3H groups: R!-3 = H. (substituted) lower alkyl:
B!-2 = C6HM which may be substituted with !-2 Mo. Et. MoO. EtO. Ct. Br. NOC.
CO2H. and/Or SO3H groups. naphthylene which may be substituted with SO3H groups: Z!-2 = vinyl. ClI2CH2L: L = alkali-eliminating group: n = !-3]. Thus, cotton fabric was immersed in a dye bath prepared from reactive dye II, Na2SO4, and Na2CO3 at 50°, then washed, soaped, and dried to give greenish yellow fabric. Fallout of II in washing and scaping processes were 4% and 6%, resp.

ΙT

| 16818-02-1 | RL: USES (Uses) | Green exhaust dyeing of cellulosic fibers) | 16818-02-1 | CAPLUS | 1,5-Naphtha lenedisulfonic acid, 2-[[6-[[4-[cthy1]3-[[2-(aulfoxy)cthy1]sulfony]]phenyl]amino]-6-[[3-[[2-(aulfoxy)cthy1]sulfony]]phenyl]amino]-1, 3,5-1riazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

PAGE 1-A

CH2-CH2-OSO3H

1.4 ANSWER 37 OF 76 CAPLUS COPYRIGHT 2007 ACS OR STN (Continued)

PAGE 1-B

— CH2— OSO3H

ANSWER 38 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A CH2-CH2-0S03H

PAGE 1-B

-- CH2-- OSO3H

L4 ANSWER 38 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1999:116590 CAPLUS
DITILE: Continuous dyeing of cellulosic fibers with reactive dyes Nishinaka, Masatake: Harada, Naoki; Omura, Takashi: Imada, Kunihiko Sumilomo Chemical Co., Ltd., Japan Jun. Kokai Tokkyo Koho, 8 pp. CODEN: JKXXAF Patent INVENTOR (S): PATENT ASSIGNEE(S): SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT NO. APPLICATION NO. DATE KIND DATE JP 63211378
PRIORITY APPLN. INFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19880902 JP 1987-44614 JP 1987-44614 19870226 19870226 ٨

MARPAT 110:116590

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
Cellulosic fibers are dyed continuously in dark shades with good fastness by using reactive dyes having free acid form | [D = residue of organic dye having SO3H groups: RI-3 = H, (substituted) lower alkyl: B1-2 = C6H4 which may be substituted with I or 2 Me. Et. McD, ELO, Cl. Br. NO2, CO2H, and/or SO3H groups, naphthylene which may be substituted with SO3H: Z1-2 = vinyl, CHZCH2L: L = alkali-eliminating group; n = 1-3]. Thus, cotton broadcloth was passed continuously through a dye bath prepared from reactive dye II, Na2CO3, and Na alginate, then squeezed, dried, steamed 3 min at 100°, washed, scaped, and dried to give greenish yellow fabric with excellent fastness.

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Patent PATENT NO. KIND DATE APPLICATION NO. DATE JP 63213572
PRIORITY APPLN. 1NFO.:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19880906 19870227 19870227 ٨ JP 1987-45965 JP 1987-45965 MARPAT 110:116586

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title compas, contain reactive dyes I [D = sulfo group-containing organic dye residue: RI, R2, R3 = H, (un) substituted lower alkyl: B1, B2 = (un) substituted phenylene, naphthylene: Z1, Z2 = vinyl, CH2CH2L: L = alkali-cleavable group: n = 1-3] and alkylnaphthylene sulfonic acid-HCHO condensate. A mixture of 11 65, methyl naphthalenesul fortic acid-HCHO condensate (degree of sulfonation 110%, average degree of condensation 1.5, Na salt) 34, and mineral oil emulsion 1 part was dissolved in hot vater, cooled to 25, treated with 15 volume parts 32.5% aqueous NaON, 150 parts 50 Be water glass, and water to 1000 volume parts to give a padding solution showing good dyeing performance on cotton even after being stored 120 min at 25°.

III6818-02-1
RL: USES (Uses)
(dye. stubilizers for, alkylnaphthalenesulfonic acid-formaldehyde condensates as)
18.8-02-1 CAPLUS
18.5-Naphthalenedisulfonic acid. 2-[[6-[4-[ethy1[3-[[2-(sulfooxy)ethy]]sulfony]]phenylamino]-6-[3-[[2-(sulfooxy)ethy]]sulfony)]phenylamino]-1, 5-triazin-2-yl]amino]-t-hydroxy-3-sulfo-2-naphthalenyl]szo]- (9CI) (CA INDEX NAME) ΙŤ

ANSWER 39 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

— CH2- OSO3H

L4 ANSWER 40 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

-- CH2-0S03H

L4 ANSWER 40 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
110:77511 CAPLUS
110 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE JP 63210171
PRIORITY APPLN, INFO,:
OTHER SOURCE(S):
GRAPHIC IMAGE: 19870225 19870225 19880831 A

### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The file compns. with pH 3-7 contain 5-50% of ≥1 dye 1 [D = SO3H-containing organic dye residue: RI-3 = H, (un) substituted lower alkyl: (un) substituted phenylene, naphthylene: ZI-2 = vinyl. (DIZCIZI: L = alkali-removable group: n = 1-3] and 0-5% buffers. Thus, 900 parts aqueous solution containing 16.7% dye 11 was mixed with 5 parts AcONA.3N2O, then diluted with water to 1000 parts to give dye composition with pH 5.1. The composition showed good stability after 4-wk storage at 0° or at 50°. When cotton was dyed with the dye composition, a yellow dyed product was obtained.

| T | 116818-02-1 | RL: MSC (Wiscellaneous) | (dyes, aqueous compns., containing buffers, storage-stable) | (dyes, aqueous compns., containing buffers, storage-stable) | (16818-02-1 CAPLUS | 1,5-Naphthalenedisulfonic acid, 2-[[6-[[4-[ethyl]3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]anino]-16-[[3-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]anino]-1-[3-[5-triazin-2-yl]anino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

L4 ANSWER 41 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1988: \$51440 CAPLUS
109: 151440 CAPLUS

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
EP 264137	Al	19880420	EP 1987-115146		19871016
EP 264137	81	19910612			
R: BE, CH,	DE, ES, FR	, GB, IT,	LI, NL, SE		
JP 63101458	A	19880506	JP 1986-248201		19861017
IP 07053832	8	19950607			
IP 63145369	A	19880617	JP 1986-294514		19861209
JP 07091484	8	19951004			
US 4904766	Ä	19900227	US 1987-106798		19871013
PRIORITY APPLN. INFO.	:		IP 1986-248201	A	19861017
			JP 1986-294514		19861209
OTHER SOURCE(S):	MARPAT	109:1514			
GRAPHIC IMAGE:					

ABSTRACT:
The title compds. I [Bl. B2 = phenylene, naphthylene; D = methoxysulfophenyl, methoxydisulfophenyl, (un)substituted naphthyl; R1-R3 = H, (un)substituted alkyl; Yl, Y2 = CH:CH2, CH2CH2C1; Z = alkali-cleavable substitutent], useful for dyeing or printing fiber materials fast scarlet shades, are prepared 6-Amino-1-hydroxy-3-naphthalenesulfonic acid was condensed with cyanuric

L4 ANSWER 41 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) chloride, the condensate coupled with disactized pransidinera-sulfonic acid, and the monoato intermediate sequentially condensed with a EtNUCGH4SO2CH2CH2OSO3H and m-H2NCGH4SO2CH2CH2OSO3H, forming 11, Amax

| 116818-02-1P | 116818-03-2P | 116818-04-3P | RL: PREP (Preparation) | (manufacture of, as scarlet reactive dye) | 116818-02-1 | CAPLUS | 1,5-Naphthalenedisulfonic acid. 2-[6-[4-[ethy][3-[2-(sulfooxy)ethy]]sulfoniy]pheny]amino]-6-[[3-[[2-(sulfooxy)ethy]]sulfoniy]pheny]amino]-13.5-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthaleny]]azo]- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

### - CH2-0S03H

L4 ANSWER 42 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION MAMBER:
DOCUMENT NUMBER:
1098:530801 CAPLUS
1098:330801
1TILLE:
1NVENTOR (S):
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3636398	A1	19880505	DE 1986-3636398	19861025
EP 265828	Al	19880504	EP 1987-115414	19871021
EP 265828	B1	19900808		
R: BE, CH, DE,	ES, FR	, GB, IT, L1		
JP 63112661	A	19880517	JP 1987-266683	19871023
JP 07098910	В	19951025		
PRIORITY APPLN. INFO.:			DE 1986-3636398 A	19861025
OTHER SOURCE(S): GRAPHIC IMAGE:	MARPAT	109:130801		

## \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

# ABSTRACT: The title

116390-66-0P
RL: PREP (Preparation)
(manufacture of, as reactive orange dye)
116390-66-0 CAPLUS
Pyridinium. 1.1'-[1.4-phenylenebis[imino[6-[[5-hydroxy-7-sulfo-6-[[1-sulfo-6-[[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]-2-naphthalenyl]amino]1.3.5-triazine-4, 2-diyl]]]bis[3-carboxy-, bis(inner salt) (9C1) (CA INDEX NAME)

1.4 ANSWER 41 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

- CH2- OSO3H

PAGE 1-A

$$\begin{array}{c|c} & & & & & & & & & & & & & & & \\ Ho_3so-ch_2-ch_2-& & & & & & & & \\ & & & & & & & & & \\ & & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & \\ & & & \\ & \\ & & \\ & & \\ & \\ & \\ & \\ & & \\ & & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ & \\ &$$

PAGE 1-B

L4 ANSWER 42 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) PAGE 1-A

PAGE 1-C

-- CH2-- CH2-- OSO3H

116413-96-8P
RL: PREP (Preparation)
(manufacture of, as red reactive dye)
116413-96-8 CAPLUS
Pyridinium, 1.1'-[1, 2-ethenediy|bis{(3-sulfo-4, 1-phenylene) imino[6-{[5-bydroxy-7-sulfo-6-[1-sulfo-6-[2-(sulfooxy)ethyl]sulfonyl]-2-phydroxy-1-sulfo-6-[1, 1-sulfo-6-1, 3-triazine-4, 2-diy|l]}]bis[3-(maninocarbonyl)-, bis(inner salt) (9C1) (CA INDEX NAME)

L4 ANSWER 42 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$- \underset{\circ_{3}}{\text{NH}} - \underset{\circ_{3}}{\text{CH}} = \underset{\circ}{\text{CH}} = \underset{\circ}{\text{CH}} - \underset{\circ}{\text{CH}} - \underset{\circ}{\text{CH}} = \underset{\circ}{\text{CH}} - \underset{\circ}{\text{CH}} - \underset{\circ}{\text{CH}} = \underset{\circ}{\text{CH}} - \underset{\varepsilon}{\text{CH}} - \underset{\varepsilon}{\text{CH}} - \underset{\varepsilon}{\text{CH}} - \underset{\varepsilon}{\text{CH}} - \underset{\varepsilon}$$

L4 ANSWER 43 OF 76 CAPILUS COPYRIGHT 2007 ACS on STN

PAGE 1-A

PAGE 1-B

114876-45-8P 114876-51-6P 114904-11-9P RL: PREP (Preparation)
(manufacture of, as reactive disazo dye)
114876-45-8 CAPLUS
Pyridinium, 3-(aminocarbony))-1-[4,6-bis[[6-[[6-(ethenylsulfonyl)-1-sulfo-2-naphthalenyl]azo]-5-hydroxy-7-sulfo-2-naphthalenyl]methylamino]-1, 3, 5-triazin-2-yl]-, inner salt (9C1) (CA INDEX NAME)

L4 ANSWER 43 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
109583408029 CAPLUS
1095829
TITLE:
1NVENTOR(S):
SOURCE:
ACCESSION NUMBER:
1095829
Water-soluble reactive pyridinium group-containing disazo dye manufacture
Schlaefer, Ludwig: Springer, Hartmut: Haehnle, Reinhard
Hoechst A.-G., Fed. Rep. Ger.
Ger. Offen., 35 pp.
CODEN: GWXRX
PATENT INFORMATION:
FAMILY ACC. NUM. COUNT:
FAMILY ACC. NUM.

DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3629574	Al	19880303	DE 1986-3629574	19860830
EP 258806	Al	19880309	EP 1987-112385	19870826
EP 258806	BI	19901227		
R: BE, CH, DE,	FR. GB	. IT. LI		
IP 63068669	Α΄	19880328	JP 1987-211517	19870827
IP 07098909	В	19951025		
US 4806127	Ä	19890221	US 1987~90222	19870827
PRIORITY APPLN. INFO.:			DE 1986-3629574	19860830
OTHER SOURCE (S): GRAPHIC IMAGE:	MARPAT	109:8029		

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

\* AIRCOND. ABSTRACT:
The file compds. I [D1, D2 = (un) substituted benzene ring, (un) substituted naphthalene ring, RICGH3NNCGH3R2, CGH4NNCCGH4, CGH4CONRCGH3SO3M: R1, R2 = H, MOZ, SO3H, Me, Et. Med), E10: K1, K2 = divalent (un) substituted aminohydroxynaphthalenesulfonic acid (or alkali sail) anoisty: R = CO2H, CON12: X = CH:CH2, CICCR(20SO3M), CH2CR[2C] land their i-1 copper complexes, useful for dyeing and printing of cellulose fibers and cellulose fiber blends, are prepared Thus, 3-(Ps-Sulfatorhylaulfony)) and line was diazolized and 2 molar equivalence coupled with 2-maino-8-hydroxy-6-naphthalenesulfonic acid-cyanuric chloride 2:1 condensate, and the moist diszaco condensate was condensed with nicotinamide to give 11, having Amax (N2O) 478 nm, which dyed cotton in a fast orange-red shade.

IT 114876-33-4P
RL: PREP (Preparation)
(manufacture of, as orange reactive disazo dye)
RN 114876-33-4 CAPUE
CN Pyridinium, 3-(aminocarbonyl)-1-[4,6-bis[[6-[[6-(ethenylsulfonyl)-1-sulfo-2-naphthalenyl]amino]-1,3,5-triazin-2-yl]-, inner salt (9CI) (CA INDEX NAME)

L4 ANSWER 43 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

PAGE 1-A

PAGE 1-B

RN CN

ANSWER 43 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-A

$$\begin{array}{c} \text{HO}_3\text{SO-CH}_2-\text{CH}_2- \\ \\ \text{HO}_3\text{S} \end{array} \begin{array}{c} \text{OH} \\ \\ \text{HO}_3\text{S} \end{array} \begin{array}{c} \text{OH} \\ \\ \text{N} \end{array} \begin{array}{c} \text{NH} \\ \\ \text{N} \end{array} \begin{array}{c} \text{NH} \\ \\ \text{NH} \end{array}$$

PAGE 1-B

11

114876-32-3P
RL: NDF (Industrial manufacture): RCT (Reactant); PREP (Preparation): RACT (Reactant or reagent)
(preparation and hydrolysis of)
114876-32-3 CAPLUS
Pyridinium, 3-(aminocarbony))-1-(4,6-bis[[5-hydroxy-7-sulfo-6-[[1-sulfo-6-[[2-(sulfoxy)-thy]]-yllony]]-2-naphthalenyi]azo]-2-naphthalenyi]azo]-1,3,5-triazin-2-y]]-, inner salt (9C1) (CA INDEX MAME)

PAGE 1-A

L4 ANSTER 44 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
INTER:
INVENTOR(S):
SOURCE:
DOCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NUM. COUNT:
FAILLY ACC. NUM. CO

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 62132968 JP 06019046 PRIORITY APPLN, I GRAPHIC IMAGE: 19870616 19940316 19851206 IP 1985-273344 JP 1985-273344 19851206 INFO.:

ABSTRACT:
The title dyes, useful for cellulosic and N-containing fibers and for the one-bath-one-step dyeing of polyester blends, having the free-acid form 1 [A = aliphatic or arosalic divalent group; M = H, alkali metal: R = benzene or naphthalene diazo component residue: R1 = H, lower alkyl; R2 = H, (un) substituted lower alkyl; X = (un) substituted phenylene, naphthylene: Y = SOZCH:CHZ, SOZCZHWE; W = alkali-removable group: m = 0, 1], are prepared Thus, 6-(4.6-dichloro-s-trinzin-2-ylusino)-2-(2-sulfophenylazo)-1-naphthol-3-sulfonic acid was condensed with KCI to give I (3, 3'-bonding, R = 2-C6M4SO3H, R1 = H, R2 = Me, X = 3-C6H4, Y = SOZCHCZHOSO3H, m = 0, K salt), deep orange on coiton.

113276-07-6P 113276-08-7P 113276-09-8P
RL: PREP (Preparation)
(manufacture of, as reactive dye for one-bath-one-step dyeing of polyester fiber blends)
113276-07-6 CAPLES
Benzoic acid, 3,5-bis[[4-[[5-hydroxy-7-sulfo-6-[(1-sulfo-2-naphthaleny1)azo]-2-naphthaleny1)azo]-2-naphthaleny1]amino]-6-[[2-sulfo-5-[[2-

ANSWER 43 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

ANSWER 44 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (sulfothio)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazin-2-yl]amino]- (9C1) (CA INDEX NAME)

PAGE 1-B -CH2-CH2-S-S03H

$$\label{eq:continuous} \begin{split} &113276-08-7 \quad CAPLUS\\ &2.7^{-NaphthalenedisulTonic acid,} &3,3'-\{1,2^{-}ethanediylbis[inino[6-[[3-chloro-5-[[2-csulfoxy]]]]]]\\ &5-[[2^{-}csulfoxy]]\\ &118ino[1-hydroxy-3-sulfo-6,2^{-}naphthalenediyl)]\\ &20]]bis-[9Cl] \quad (CAINDEN AMEL) \end{split}$$

1.4 ANSWER 44 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\label{eq:condition} \begin{split} &113276-09-8 \quad CAPLUS\\ &1.5-Naphthalened is ulfonic acid, \ 2,2'-[1,4-butaned iylbis[imino[6-[[3-[(2-bronocthy]) sulfonyl]-5-butylphenyl]amino]-1,3,5-triazine-4,2-diyl]imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]]bis- (9C1) \quad (CA INDEX NAME) \end{split}$$

L4 ANSWER 45 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1988:114197 CAPLUS
108:114197 CAPLUS
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108:114

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE JP 62132967 JP 06019045 PRIORITY APPLN. INFO.: OTHER SOURCE(S): GRAPHIC IMAGE: JP 1985-273343 19851206 JP 1985-273343 CASREACT 108:114197 19851206

$$\begin{array}{c|c} & \text{HO} & \text{R1} & \text{OH} \\ \text{RN} = \text{N} & \text{N} & \text{N} \\ \text{MO}_{3}\text{S} & \text{SO}_{3}\text{M})_{\text{B}} & \text{N} \\ & \text{N} & \text{R2} & \text{(SO}_{3}\text{M)}_{\text{B}} \\ \end{array}$$

ABSTRACT: The title dyes, which can be used for cellulose and N-containing fibers in the one-bath-one-step dyeing of polyester blends, and which have the free-acid form I [N = H, alkeli metal: R = benzene or maphthalene diazo residue: RI = H, lover alkyl: R2 = H, (un) substituted fore ralkyl: X = (un) substituted prepylene; n = 0, 1], are prepared Thus, 6-(4,6-dichlorostriazin-2-ylasino)-2-(2-sulfophenylazo)-1-maphthol-3-sulfonic acid was condensed with 6-asino-2-(2-sulfophenylazo)-1-maphthol-3-sulfonic acid and then with m-MeNNCGH4SOZCH2CH2OSO3H, and salted out with KCl to give I (3,3'-bonding, N = K, R = 2-CGH4SO3H, RI = H, R2 = Ne, X = 3-CGH4SO2CH2CH2OSO3H, m = 0), deep orange on cotton.

113276-53-2P 113276-54-3P 113303-76-7P
RL: PREP (Preparation)
(anounfacture of, ns reactive dye for one-bath-one-step-dyeing of polyester fiber blends)
113276-53-2 CAPLUS
2, 7-Naphthalenedisulfonic acid, 3, 3'-[[6-[[3-chloro-5-[[2-(sulfoxoy)ethy]]sulfonyl]phenyl]amino]-1, 3,5-triozime-2, 4-diyl]bis[imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)nzo]]bis- (9CI) (CA INDEX NAME)

L4 ANSWER 44 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 45 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

-- 0S03H

113276-54-3 CAPLUS
1,5-Naphtha lenedisulfonic acid, 2,2'-[[6-[[4-[[2-(acetyloxy)chty]]sulfony]]phonyl]amino]-1,3,5-triazine-2,4-diyl]bis[imino[1-hydroxy-3-sulfo-6,2-naphthalenediyl]azo]]bis- (9CI)
KDEX NAME:

PAGE 1-A

ANSWER 45 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

PAGE 1-B

ANSWER 46 OF 76 CAPLIS COPYRIGHT 2007 ACS on STN (Continued)
110111-50-7 CAPLIS
1,5-Maphthal lenedisul fonic acid, 3,3'-[1,4-butanediylbis[imino[6-[[3-chloro-5-[[2-fsulfooxy]cthy]]sulfony]]phenyl]maino]-1,3,5-triazine-4,2-diyl]imino-4,1-phenylenecarbonylimino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]]bis-(9C) (CA NDEX MAME)

PAGE 1-C

110111-51-8 CAPLUS
1.5-Naphthal enedisus[fonic scid. 3, 3'-[1, 4-cyclohexanediylbis[imino[6[sethyl[4-[2]-csulfooxy]ethyl]sulfony]]phenyl]smino]-1, 3.5-trinzine-4, 2diyl]imino-4, [-phenylenecarbonyl imino[1-hydroxy-3-sulfo-6, 2naphthalenediyl]nzo]]bis-[9Cl] (CA INDEX MAME)

L4 ANSWER 46 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1988:77120 CAPLUS
108:77120
TITLE:
1NVENTOR(S):
1NVENTO

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE JP 62030158 PRIORITY APPLN, INFO, : GRAPHIC IMAGE: 19870209 JP 1985-167402 JP 1985-167402 19850731 19850731

ABSTRACT: The tille dyes I [N = H, alkali metal: D = benzene- or naphthalene-based diazo component residue: RI = H, alkyl: R2, R3 = H, alkyl, alkoxy, halogen, SO3M: Z = divalent aromatic or aliphatic residue), useful for dyeing cotton under stailar conditions for dyeing polyester fibers, were prepared and used for dyeing cotton in orange to pink shades. Thus, II was condensed with p-phenylenedismine and then with 3-(sulfateethylsulfonyl) aniline to give I (Rt = R2 = R3 = N = H: D = 2.5-disulfophenyl: 3-SOZCIZCHZOSO3M: Z = p-phenylene), orange on cotton.

L4 ANSWER 46 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

$$\begin{array}{c} \text{SO}_3\text{H} \\ \text{N} \\ \text{N} \\ \text{HO}_3\text{S} \\ \end{array}$$

PAGE 1-C

110111-55-2 CAPLUS

L4 ANSWER 46 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
CN 1,5-Naphthalenedisulfonic acid, 2,2'-[1,4-phenylenebis[imino[6-[[3-[[2-(sulfooxy)ethy]]sulfonyl]]henyl]amino]-1,3,5-trimezine-4,2-diyl]imino-4,1-phenylenecarbonyl imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]]bis-(9C1) (CA INDEX NAME)

PAGE 1-A

DACE 1-

L4 ANSWER 46 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-C

RN 110111-59-6 CAPLUS

1.3.6-Naphthalenetrisulfonic acid. 7.7'-[(5-methoxy-1,3-phenylene) bis | isinio[6-[(4-methoxy-3-[(2-(sulfooxy)ethyl]sulfonyl]phenyl]asino[-1,3,5-triazine-4,2-diyl]|sino-4,1-phenylenecarbonylisino(t-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]|bis= (9CI) (CA INDEX NAME)

L4 ANSWER 46 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

PAGE 1-C

RN 110111-58-5 CAPLMS

N 1.5-Maphthalenedisulfonic acid, 3,7-bis[[4-[[4-[[[5-hydroxy-7-sulfo-6-[(1-sulfo-2-naphthaleny])azo]-2-naphthaleny]]amino]carbony]]phenyl]amino]-6-[[5-methoxy-2-methyl-4-[[2-(sulfooxylethyl]sulfonyl]phenyl]amino]-1,3,5-triazir-2-yl]amino]-[9Cl) (CA INDEX MAME)

PAGE 1-A

PAGE 1-B

$$\begin{array}{c} \text{SO}_{3}\text{H} \\ \text{SO}_{3}\text{H} \\ \text{NH} \\$$

L4 ANSWER 46 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
PAGE 1-C

L4 ANSWER 47 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
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1097:592839 CAPLUS
107:192839
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LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APP	LICATION NO.	DATE
JP 62081456 IP 06055904	A B	19870414 19940727	JP	1985-220912	19851003
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GRAPHIC IMAGE:	_	ACT 107:1928		1985-220912	19851003

### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title compds. I [M = H, alkali metal: R = H, carboxy: R1 = H, lower alkyl, alkoxy, carboxy, sulfo: R2, R4 = H, lower alkyl, alkoxy, AcNNI, sulfo: R3 = lower alkyl, alkoxy, sulfo: R5, R6 = H, lower alkyl: Y = SO2CH:CH2, SO2CH:CH2W: W = alkali-removable group: X = (un) substituted phenylene, naphthylene: Z = Cl, F, Br, amine residue, MeO, PhO: m = 1-3: n = 0, 1: the A, B, and C rings may be benzene or naphthalene rings] were prepared and used for dyeing cellulosic and N-containing fibers. Thus, 2-naphthylamine-3,6.8-trisulfonic acid was diazotized, coupled with 2-methoxy-5-methylamiline, diazotized, coupled with the condensation product of cyanuric chloride with 1-maino-8-hydroxynaphthalene-3,6-disulfonic acid and m-MeNNC6H4SO2CH2CH2OSO3H to give 11, greenish pink on cotton.

| 110581-08-3 | RL: BIOL (Biological study) | (dye, for cotton, manufacture of) | 110581-08-3 | CAPLIS | 1,7-Maphthalenedisulfonic acid, 2-[[4-[buty1[4-[[2-(sulfooxy)athy1]sulfony]]]]] | 110581-08-3 | CAPLIS | 1,7-Maphthalenedisulfonic acid, 2-[[4-[buty1[4-[[2-(sulfooxy)athy1]]]]]] | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3 | 110581-08-3

 1.4 ANSWER 48 0F 76 ACCESSION NUMBER:
 CAPLUS COPYRIGHT 2007 ACS on STN 1987:578029 CAPLUS 107:178029

 DOCUMENT NUMBER:
 107:178029

 TITLE:
 2 Dyeing nitrogen-containing fibring 
107:178029
Dyeing nitrogen-containing fibers
Izusu, Kyoto: Watanabe, Shigeyuki: Shirasaki,
Toshitaka
Nippon Kayaku Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
Palent

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: Japanese

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62053486 PRIORITY APPLN. INFO.: GRAPHIC IMAGE:	٨	19870309	JP 1985-188517 JP 1985-188517	19850829 19850829

ABSTRACT:
Wool, silk, and acrylic—wool blends were dyed with dyes containing ≥1 setriazine group containing 1 group (R = OH, amino) at pH 4-9 at 80-120°. Thus, cyanuric chloride was condensed with a mixture of 3- and 4-aminobenzenesul fonic acids and 7-amino-4-hydroxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-(4-methoxy-3-4-methoxy-3-)) for 8 h to give 11 as a 1:1 mixture of 3- and 4-SO3H isomers. With this dye mool gave a fast pink dyeing showing no dye fall off in 50% DMF at 100° for 1 h.

ΙT

110136-77-1
RL: USES (Uses)
(dye, for nitrogen-containing fibers)
110136-77-1 CAPLUS
Pyridinium, 4-(mainocarbonyl)-1-[4-[(2-carboxyphenyl)maino]-6-[[6-[(1.5-disulfo-2-naphthalenyl)mao]-5-bydroxy-7-sulfo-2-naphthalenyl]maino]-1, 3, 5-triazin-2-y-1]-, inner salt (9Cl) (CA INDEX MAME)

L4 ANSWER 47 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 48 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 49 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:516954 CAPLUS
107:116954
INVENTOR (S): Reactive disazo dyes
HIDDRAY ASSIGNEE(S): SOURCE: Obtained the state of t

DOCUMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 62084160 JP 06089264	A B	19870417	JP 1985-225555	19851009
PRIORITY APPLN. INFO.: OTHER SOURCE(S): GRAPHIC IMAGE:	_	ACT 107:1169	JP 1985-225555 54	19851009

ABSTRACT:
Disazo compds. 1 (W = H. alkali metal: Rl = H. Cl. lower alkyl, alkoxy, NO2, carboxy, R2 = lower alkyl, alkoxy, sulfo: R3 = H. lower alkyl, alkoxy, ureido, AcNI, sulfo: R4 = H. lower alkyl: R5 = M. (un)substituted lower alkyl: Y = SOZCH: Cl12, SOZCHZEV W = alkali-removable group; X = (un)substituted phenylene, apathylene: Z = Cl, F, Br, amine residue, Mo0, PhO; m = 1-3; n = 0, 1; rings A and B may be benzene or naphthylanien-ringl were prepared and used for dyeing cotton and wool. Thus, 2-naphthylanien-4, 8-disulfonic acid, -2-aminobenzenesulfonic acid was diszotized, coupled with 1:1:1 condensate of 2-mainot-phydroxynaphthalenen-7-sulfonic acid, cyanuric chloride, and -NoNICOHASOZCHZCHZOSO3M, and salted (KCl) to give 1 (A = 4, 8-disulfo-2-naphtyl: B = benzene: R1 = R3 = R4 = H: R2 = sulfo: R5 = Ms; XY = CGMASOZCHZCHZOSO3H-m; Z = Cl: n = 0: 3-bonding: K salt), deep red on cotton and wool.

IT 110067-47-5

L4 ANSWER 50 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
107:98201
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DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

	PATENT NO.	KIND	DATE	AP	PLICATION NO.		DATE
	EP 219232 EP 219232	A2 A3	19870422 19880504	EP	1986-307167		19860917
	EP 219232 EP 219232	Bi	19900829				
	R: CH, DE, FR.	GB, 11	r, Li				
	US 4758658	۸	19880719	US	1986-909848		19860922
	IP 62086056	٨	19870420	JP	1986-236373		19861006
	IP 07064991	В	19950712	-			
	US 4772323	Ä	19880920	US	1987-67262		19870629
PR	ORITY APPLN. INFO.:			GB	1985-24697	٨	19851007
				US	1986-909848	A3	19860922

## \* STRICTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title compds. I [M = H, N]M, monovalent metal: R] = (CaH2nO)m(CbH2bO)nH and a, b = 1-8, where a = b: R2 = H. (CaH2nO)m(CbH2bO)nH: R5, R6, R8 = H. SO3W: R7 = H, halogen, C1-4 alkyl, C1-4 alkoxy, SO3W, CO2W: X = NRIR2, NR3R4: R3, R4 = H, alkyl, aryl, mono- or disazo chromophore: m = 1-10: n = 0-9], useful in jet-printing inks containing polyhydric alc. solvents, are prepared 5-Hydroxy-6-(2-sulfophenylazo)-7-sulfopnaphth-2-ylamine was condensed with cyanuric chloride, the condensate was condensed with II (M = undefined, R5 = SO3Na, &6-R8 = H), and H2CNECHZOH2 was condensed with the intermediate: salting out with brine gave I [R1 = H0CH2)2, R2 = R6 = R7 = R8 = H, R5 = SO3Na, X = 5-Hydroxy-6-(2-sulfophenylazo)-7-sulfophenylazo) - Naj (111). A jet-printing ink was prepared from III 5, diethylene glycol 35, and H2O 60 parts.

IT

109834-41-5P 109834-42-6P
RL: PREP (Preparation)
(annufacture of, as water-soluble dye for jet-printing inks)
109834-41-5 CAPUS
Cuprate (6-), [2-[[1]-[4-[[6-[(1,5-disulfo-2-naphthaleny])azo]-5-bydroxy7-sulfo-2-naphthaleny||anino]-6-[(2-bydroxyethy)|anino]-1,3,5-triazin-2y|]anino]-2-bydroxy-5-sulfopheny||azo]phenylmethyl]azo]-5-sulfobenzoato(8)]-, hexasodium (9C1) (CA INDEX NAME)

ANSWER 49 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
RI: TEM (Technical or engineered material use); USES (Uses)
(dye, for cotton)
110067-47-5 CAPLUS
2-Naphthalenesulfonic acid, 7-[4-{[3-(ethenylsulfonyl)phenyl]amino]-6-[(3-sulfophenyl)amino]-1, 3,5-triazin-2-yl]amino]-4-hydroxy-3-[[2-sulfo-4-[(3-sulfophenyl)azo]-1-naphthalenyl]azo]- (9CI) (CA INDEX NAME)

PAGE 1-A

PAGE 2-A

ANSWER 50 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 1-B

 $\begin{array}{lll} 109834-42-6 & CAPLNS \\ Cuprate (6-), & [2-[[[3-[4-[4-(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]aethylaanino]-6-[(2-hydroxyethyl)amino]-1, 3, 5-triazin-2-yl]aanino]-2-hydroxy-5-sulfophenyl]azo]phenylaethyl]azo]-5-sulfobenzoato(8-)]-, hexasodium (9C1) (CA INDEX NAME)$ 

10/520,964 Page 35

1.4 ANSWER 50 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

L4 ANSWER 51 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) L4 ANSHER 51 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1987:479474 CAPLUS
107:79474
1017:79474
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1018:1794 DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 62006989 PRIORITY APPLN. GRAPHIC IMAGE: 19870113

ABSTRACT: Reactive dyes containing a ZCOR group (Z = pyridinio moiety: R = OH, NH2) and  $\simeq$ 1 s-triazinyl group were prepared and used for dyeing fiber blends from colton, rayon, and jute. Thus, 4-(3,6,8-trisulfo-2-naphthylazo)-3-acctamidoaniline in water was condensed with cyanuric chloride, 2-sulfoethamamine, and then nicotinic acid to give 1, level reddish yellow on colton-rayon blend.

IT 109295-93-4
RL: USES (Uses)
(dye. for cellulosic fiber blends)
RN 109295-93-4 CAPLUS
CN Pyridinium. 3-carboxy-1-[4-[{6-[(1.5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]aanio|-6-[(2-hydroxyethyl)amino]-1.3.5-triazin-2-yl]-, inner salt (9Cl) (CA INDEX NAME)

1.4 ANSWER 52 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1987:88177 CAPLUS
1987:88177 DOCUMENT TYPE: LANGUAGE: FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3512630	Al	19861023	DE 1985-3512630	19850406
IN 165369	Al	19890930	IN 1986-CA254	19860331
EP 202436	A2	19861126	EP 1986-104441	19860401
EP 202436	A3	19890201		
R: CH, DE, FR,	GB, IT			
US 4693726	٨	19870915	US 1986-847722	19860403
JP 61231281	٨	19861015	JP 1986-76811	19860404
PRIORITY APPLN, INFO.:			DE 1985-3512630 A	19850406
OTHER SOURCE(S):	MARPAT	106:86177		
CDADUIC IMACE:				

ABSTRACT: Cellulosic fibers or their blends can be dyed advantageously with H2O-soluble reactive dyes bearing s-triazinylpyridinium groups substituted in the pyridine ring with H0, H0CH2, alkoxy, CH0, carbamoyl, CN, carbonkoxy, SO3H, or halogen groups. Dyeing 50 parts cotton fabric in a bath containing the reactive dye! 2, Na2SO4 50, m-O2NCGHHSO3Na |, and H2O 900 parts at 40° for 45 min, adding 100 parts solution of calcined soda, and heating 45 min at 60° gave a strong, yellow-gold dyeing with good fastness.

IT 106620-94-4 106620-97-7
RL: USES (Uses)
(reactive dyeing by, of collulosic fibers)
RN 106620-94-4 CAPLUS
CN Pyridinium, 1,1-[1,4-phenylenebis[imino[6-[[6-[(1,5-disulfo-2-naphthaleny])ano]-5-hydroxy-7-aulfo-2-naphthaleny])anino]-1,3,5-triazine-4,2-diy]]]]bis[3-sulfo-, bis(inner sall), hexasodium sall (9Cl) (CA INDEX NAME)

ANSWER 52 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

106620-97-7 CAPLUS
Pyridinium, 3-(aminocarbonyl)-1-[4-{[5-hydroxy-7-sulfo-6-[(1,5,7-trisulfo-2-naphthalenyl)azo]-2-naphthalenyl]amino]-6-[(3-sulfophenyl)amino]-1,3,5-triazin-2-yl]-, inner salt, tetrasodium salt (9C1) (CA INDEX NAME)

L4 ANSWER 53 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION MARBER: 1986: 592855 CAPLUS
DOCUMENT NUMBER: 105:192855
TITLE: 1NVENTOR(S): Freelive dyes
NITEMA ASSIGNEE(S): Freelive dyes
SOURCE: Freelive dyes
Nounce of the company o

DOCUMENT TYPE: CODEN: JI
LANGUAGE: JAPANESE
FAMILY ACC. NUM. COUNT: JAPANESE
FAMILY INFORMATION: 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 61040367 PRIORITY APPLN. INFO.: GRAPHIC IMAGE:	٨	19860226	JP 1984-159236 JP 1984-159236	19840731 19840731

ABSTRACT:
Reactive azo dyes containing (aminocarbonylpyridinio) triazine group were prepared and used for dyeing cotton. Thus, 1-amino-8-hydroxynaphthalene-3, 6-disulfonic acid was condensed with dyanuric chloride, coupled with diazotized o-amilinesulfonic acid, condensed with p-phenylenediamine, and treated with nicotinamide to give 1 (Z = p-phenylene), bluish red on cotton.

104701-32-8
RI: TEM (Technical or engineered material use); USES (Uses)
(dye, for cotton, manufacture of)
104701-32-8 CAPLUS
Pyridinium, 4-(mainocarbonyl)-i-[4-[[6-[(1,5-disulfo-2-naphthalenyl)maino]-5-fydroxy-7-sulfo-2-naphthalenyl)maino]-6-[(3-sulfophenyl)maino]-1,3,5-triazin-2-yl]-, inner salt (9CI) (CA INDEX NAME)

ANSWER 52 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 53 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

L4 ANSWER 54 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1996-462207 CAPLUS
DOCLMENT NUMBER: 1966-462207 CAPLUS
DYAIR of Cellulose-containing fibers with reactive azo dyes
ATENT ASSIGNEE(S): Shigeyuki; Yamanura, Shigeo
DATENT ASSIGNEE(S): Shigeyuki; Yamanura, Shigeo
DOCLMENT TYPE: Potent Type: Potent

DOCUMENT TYPE: LANGUAGE: Japanese 1

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. DATE JP 61012987 PRIORITY APPLN. INFO.: GRAPHIC IMAGE: 19860121 JP 1984-131993 JP 1984-131993 19840628 19840628

ABSTRACT: Reactive dyes containing, >1 s-triazinyl group substituted with quaternary ammonium group-containing substituent (excluding 3-carboxypyridinio) can be used for dip dyeing cellulosic fibers from an aqueous bath at a low temperature (100-150°) in the absence of acid binders. This process is especially effective in dyeing cotton blends with mixed dyes by one-bath-one-step dyeing. Thus, I in water was stirred with a solution of pyridine-3-sulfonic acid in aqueous NaOH at 80° for 16 h to give 11, fast bluish red on cotton.

17

103446-34-0
RI: TEM (Tuchnica) or engineered material use): USES (Uses)
(dye, for cotton, manufacture of)
103446-34-0 CAPLUS
Pyridinium, 3-(saminocarbonyl)-1-[4-amino-6-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-maphthalenyl]methylamino]-1, 3, 5triazin-2-yl]-, inner salt (9CI) (CA INDEX NAME)

L4 ANSWER 55 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1986:462206 CAPLUS 105:62206 TITLE: 105:62206 Reactive dyes Reactive dyes Quara, Takashi: Morimitsu, Tosh

105:62206
Reactive dyes
Omura, Takashi: Morimitsu, Toshihiko: Knyane, Yutaka:
Swwanoto, Hirokazu: Takeshita, Akira: Harada, Naoki
Sumitomo Chemical Co., Ltd., Japan
Jpn. Kokai Tokkyo Koho. 22 pp.
CODEN: JKXXAF
Patent
Japanese
I

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. APPLICATION NO. KIND DATE DATE JP 61007358 JP 07023455 PRIORITY APPLN, I GRAPHIC IMAGE: 19860114 JP 1984-126876 19840620 INFO. : IP 1984-126876 19840620

ABSTRACT:
Compds. containing ≥1 fiber-reactive group I [R, R] = H, (un)substituted
Cl-20 hydrocarbon group) were prepared and used for dyeing cotton with excellent
fastness and buildup properties. Thus, II in water was treated with
2-methylimidazole, adjusted to pH 4.0-4.5, stirred at 80 ° Covernight,
and salted to give III, golden yellow on cotton.

ΙT

| 103460-28-2 | RL: TEM (Technical or engineered material use): USES (Uses) | (4ye. for cotton, manufacture of) | 103460-28-2 | CAPLUS | | 103460-28-2 | CAPLUS | | 111-latidazolium, 1-[2-(4,6-diamino-1,3,5-triazim-2-yt)ethyl]-3-[4-[[6-[(4,8-diamino-1)and-1]and-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-6-(mathylphenylamino)-1,3,5-triazim-2-yt]-2-undecyt-, inner salt (9C1) (CA INDEX NAME)

1.4 ANSWER 54 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{array}{c} \text{No} \\ \text{H2} \\ \text{N} \\ \text{Si12} \end{array}$$

L4 ANSWER 55 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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PAGE 1-B

ONE OR MORE TAUTOMERIC DOUBLE BONDS NOT DISPLAYED IN THE STRUCTURE

L4 ANSWER 56 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986: 462203 CAPLUS
DOCUMENT NUMBER: 1986: 462203 CAPLUS
105: 62203
Reactive azo dyes
Niva, Toshio: Kato, Voshiaki
Niva,

DOCUMENT TYPE:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 60260654 JP 04001789 PRIORITY APPLN. I OTHER SOURCE(S): GRAPHIC IMAGE: 19851223 19920114 JP 1984-116194 19840606 19840606 INFO. : JP 1984-116194 CASREACT 105:62203

ABSTRACT:
Reactive azo dyes 1 (R = benzene or naphthalene residue with or without sulfo, Me. or NeO substituent: N = H, alkali metal: Rl = H, lower alkyl: R2, R3 = H, Ne, NeO, sulfo: m = O, 1) were prepared and used for dyeing cellulosic fibers in fast orange to red shades. Thus, cyanuric chloride was condensed with I-maine-8-hydroxynaphthalene-3,6-disulfonic acid and then W-methylaniline: the resulting 1:1:1 condensate was coupled with diazotized 4-mathylaniline: 2-sulfonic acid; and the coupling product was condensed with 3-HZNCGH4SOZCHZCHZOSO3H to give II, bluishi red on cotton knit.

11

103480-90-6
RL: TDM (Technical or engineered material use): USES (Uses)
(dye, for cotton, manufacture of)
103480-90-6 CAPLUS

103480-90-6 CAPLOS 1-Naphthalenesulfonic acid, 2-[[1-hydroxy-6-[[4-(methylphenylamino)-6-[[2-

L4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1986:462202 CAPLUS
DOCUMENT NUMBER: 105:62202
ITILE: Disazo reactive dyes for cellul
NVENTOR(S): Niva. Toshici. Kutoh, Yoshiaki
Niva. Toshici. Kutoh, Yoshiaki
Niva. Toshici. Kutoh, Yoshiaki
Niva. Toshici. Kutoh, Yoshiaki
Niva. Toshici. Kutoh, Yoshiaki
Niva. Toshici. Kutoh, Yoshiaki
OCOPEN: CREVIA. Disazo reactive dyes for cellulose fibers Niwa, Toshici Katoh, Yoshiaki Mitsubishi Chemical Industries Co., Ltd., Japan Ger. Offen., 54 pp. CODEN: GWXXBX Patent

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	API	PLICATION NO.		DATE
DE 3520287	Al	19851212	DE	1985-3520287		19850605
DE 3520287	C2	19870108				
JP 60260655	A	19851223	JР	1984-116192		19840606
JP 04080949	В	19921221				
JP 60260656	A	19851223	JP	1984-116193		19840606
JP 04080950	В	19921221				
IP 60260657	٨	19851223	JP	1984-116195		19840606
JP 04080951	В	19921221				
JP 60260658	A	19851223	JP	1984-116196		19840606
JP 04080952	В	19921221				
US 4686286	٨	19870811	US	1985-735561		19850517
GB 2159829	٨	19851211	GB	1985-14192		19850605
GB 2159829	В	19871028				
CH 662580	A5	19871015	CH	1985-2391		19850606
PRIORITY APPLN. INFO.:			JP	1984-116192	A	19840606
			JP	1984-116193	٨	19840606
			ĴΡ	1984-116195	٨	19840606
			ĴΡ	1984-116196	A	19840606
OTHER SOURCE(S):	CASRE	ACT 105:6220	2			

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
Compils, of general structure I (Q = monoazo dye radical: R = H, lower alkyl;
R1, R2 = H, Me, MeO, SODM: Z = bivalent aromatic or aliphatic radical: N = H, alkali
metal) dye cellulose under the same conditions used to dye polyester with
disperse dyes and thus are especially useful for dyeing cellulose-polyester textiles
by single bath-single step procedures. I are prepared by reaction of I mol
dichloro (GNR-substituted) triazines(II) with I mol ONIR and then I mol
HZNCIOHZ (SOZCHZCHZCHZCSDAW)RIRZ(III): and IV by reaction of 2 mol II with I mol
HZNYNINZ and then with Z mol III. A typical dye is V which, with
3 -hydroxyquinophthalone in aqueous medium at pH 8/130°, dyed 50:50
polyester-cotton a fast, deep yellow shade.

103487-92-9 103487-93-0 103487-94-1
103487-92-9 103487-91-1 103515-01-1
RL: USES (Uses)
(reactive dye, for high-temperature dyeing of cotton)
103487-92-9 CAPUS
8enzoin acid, 3,5-bis[(4-[(5-hydroxy-7-sulfo-6-[(1-sulfo-2-naphthaleny)]amino]-6-[(4-[(2-(sulfo-2y-temperature)]amino]-6-[(4-(2-(sulfo-2y-temperature))]amino]-1,3,5-triazin-2-yl]amino]- (9C1)
(CA INDEX NAME)

ANSWER 56 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) sulfor-4-[[2-(sulfooxy)ethyl]sulfonyl]phenyl]amino]-1, 3, 5-triazin-2-yl]amino]-3-sulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) PAGE 1-A

PAGE 1-B

103487-93-0 CAPLUS 103487-93-0 CAPUS
7, 7-Naphthalened/sulfonic acid, 3, 3'-[1, 2-ethanediylbis[imino[6-[[4-[[2-(sulfooxy)ethy]]sulfony]]pmino[-1, 3, 5-trizzine-4, 2-diyl]imino[-hydroxy3-sulfo-6, 2-maphthalenediyllazo]bis-(6C1) (CA INDEX NAME) L4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued

PAGE 1-B

RN 103487-94-1 CAPLUS
CN 1,5-Naphthalenedisulfonic acid. 2,2'-[1,4-butanediylbis[imino[6-[[3-[[2-(sulfoxy)ethyl]sulfony]]phenyl]amino]-1,3,5-trimatine-4,2-diyl]imino[1-hydroxy-3-sulfo-6,2-naphthalenediyl]azo]]bis- (9C1) (CA INDEX NAME)

1.4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

\_\_\_\_ S03H

RN 103488-17-1 CAPLUS
CN 1,5-Maphthalenedisulfonic acid, 2,2'-[[6-[[3-[[2-(sufloxy)ethyl]sulfony]]phenyl]amino]-1,3,5-triazine-2,4-diyl]bis[imino[1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]]bis-(9Cl) (CA INDEX NAME)

L4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

RN 103488-16-0 CAPLUS
CN 2,7-Naphthalenedisulfonic acid, 3,3'-[{6-[{4-[{2-(sulfoxy)ethyl]sulfonyl]phenyl]amino]-1,3,5-triazine-2,4-diyl}bis[imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)axo]bis-(9Cl) (CA INDEX NAME)

L4 ANSWER 57 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

RN 103515-01-1 CAPLUS
CN 1-Naphthalenesulfonic acid, 2,2'-[[6-[[4-[[2-(sulfooxy)ethyl]sulfonyl]phen yl]amino]-1,3,5-triazine-2,4-diyl]bis[imino(1-hydroxy-3-sulfo-6,2-naphthalenediyl)azo]]bis-(9Cl) (CA INDEX NAME)

PAGE 1-8

L4 ANSWER 58 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
104:226327 CAPLUS
104:226327 C

Patent Japanese I DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 60208366 JP 05054511 PRIORITY APPLN, INFO, : GRAPHIC IMAGE: 19851019 19930812 JP 1984-66574 19840402 IP 1984-66574 19840402

ABSTRACT:

Dyes are prepared which contain fiber-reactive groups 1, where X = 0H, sulfo, or sulfate groups. Thus, 11 reacted with y-(2-hydroxyethyl)pyridine to give the corresponding 1-containing dye, which was used to dye cotton and cotton-polyester blends.

102199-11-1
RL: MSC (Miscellaneous)
(dyes, fiber-reactive)
102199-11-1 CAPLUS
Pyridinium, 1-[4-[6-[(4,8-disulfo-2-naphthaleny1)azo]-5-hydroxy-7-sulfo-2-naphthaleny1)amino]-6-(methylphenylamino)-1,3,5-triazin-2-y1]-4-[2-(sulfooxy)ethyl]-, inner salt (9C1) (CA INDEX NAME)

CAPLUS

104:150787

Reactive azo dyes
Niwo, Toshio: Kato, Yoshiaki
Mitsubishi Chemical Industries Co., Ltd., Japan
Ger. Offen. 58 pp.
CODEN: GWXXBX
Patent
1 L4 ANSWER 59 0F 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1986:150787 CAPLUS
104:150787 CAPLUS
1TITLE:
1NVENTOR(S):
NIVENTOR(S):
NIVENTOR(S):
SOURCE:
CAPLUS
1986:150787 CAPLUS
104:150787 CAPLUS
104:150787 CAPLUS
104:150787 CAPLUS
104:150787 CAPLUS
105:150787 CAPLUS
10

DOCUMENT TYPE:

LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE APPLICATION NO. DATE DE 3512690 DE 3512690 JP 60215060 JP 04080948 JP 60226557 JP 05001308 JP 60229957 JP 05078590 19851017 19951123 19851028 19921221 19851111 19930107 19851115 19931029 AI C2 DE 1985-3512690 19850409 JP 1984-70549 19840409 JP 1984-83569 19840425 JP 1984-85509 19840427 GB 2160883 GB 2160883 US 4645832 CH 663215 PRIORITY APPLN. 19860102 19870826 GB 1985-9081 19850409 ti 19870226 A 19870224 US 1985-721514 A5 19871130 CH 1985-1515 JP 1984-70549 JP 1984-83569 CASREACT 104:150787 For diagram(s), see printed CA 1ssue.

OTHER SOURCE(S):

101308-66-1 101362-40-7 101381-88-8
RL: TEM (Technical or engineered material use): USES (Uses)
(dye, for cotton)
101308-66-1 CAPLUS
1,5-Maphthaleredisulfonic acid, 3-[4-[3-ethy]-4-[[1-hydroxy-6-[4-[3-methoxypheny]]amino]-6-[2-sulfo-4-[2-(sulfoovy)ethy]]sulfony]pheny]]amino]-1,3,5-triazin-2-y]amino]-3,5-disulfo-2-unphthaleny]]azo](CA INDEX NAME)

L4 ANSWER 58 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 1-A

PAGE 1-B

ANSWER 59 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 2-A

L4 ANSWER 59 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

 $\label{eq:continuous} \begin{tabular}{ll} 101381-88-8 & CAPLUS \\ 1.7-Naphtha lenedisulfonic acid, $6-[[4-[[4-(2.5-disulfopheny])azo]-2-sulfopheny]]azo]-2-ethoxy-1-naphtha lenyi]azo]-5-hydroxy-2-[[4-[4-nitropheny])asino]-6-[[2-sulfo-4-([2-(sulfooxy)ethyl]]sulfonyi]phenyi]asino]-1,3,5-irasin-2-yl]asino]-(9Ci) $(CA INDEX NAME)$ \end{tabular}$ 

L4 ANSWER 60 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1985:524991 CAPLUS
103:124991 
DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 60086169 JP 04020949 PRIORITY APPLN. INFO. : GRAPHIC IMAGE: 19850515 19920407 JP 1983-194357 19831019 JP 1983-194357 19831019

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT:
The title dyes are prepared having a free-acid form I [R = Ph with I or 2 sulfor carboxy groups and optionally Me, MeO, or Cl group, naphthyl with 1-3 sulfo groups: R1, R2, R3 = H, Me: R4 = carboxypyridino, Cl, F: Z = (CH2)2-3, CH2CH2CACCACLEQ. CH2CHCHO/CL2, RSEGREFGH (R5, R6, R7 = H, Ne, sulfo, carboxy: excluding o-phenylene moiety), C6H42166H4 (Z1 = O, SO2, NHCO, NH), 2.2 '-disulfotiphenyl-4.4'-diyl, Z, 2'-disulfotibhene-4.4'-diyl, Z-2'-disulfotibhene-4.4'-diyl, Z-2'-disulfotibhene-4.4'-diyl, Z-2'-disulfotibhene-4.4'-diyl, in = 1, 2] and used for dyeing cotton and blends in orange to red shades. Thus, II (R = C1) [B9213-83-3] in water was treated with nicotinic acid [59-67-6] at pH 6-6.5 (NaOH) at 90' for 8 h and salted to give II (R = 3-carboxypyridinio, dichloride, Na salt) [98213-84-4], orange on cotton.

98213-75-3 98214-45-0 98214-48-3
98214-51-8
18.: TEM (Technical or engineered material use): USES (Uses)
(dye, for cotton, manufacture of)
98213-75-3 CAPLUS
Pyridinium, 1, 1'-[1,4-phenylenebis[imino[6-[[6-[(1,5-disulfo-2-naphthalenyl]amino]-1,3,5-trimagine-4,2-diy|]]]bis[3-carboxy-, bis(inner salt) (9C1) (CA INDEX NAME)

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ANSWER 59 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L4 ANSWER 60 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

 $98214-45-0 \quad CAPLUS \\ Pyridinium, 1, 1'-[1,6-haxanediy]bis[imino[6-[[5-hydroxy-7-sulfo-6-[(3,6,8-trisulfo-2-naphthalenyl]axo]-2-naphthalenyl]amino]-1, 3,5-triszine-4, 2-diyl]]]bis[3-carboxy-. bis[inner salt] (9CI) (CA INDEX NAME)$ 

98214-48-3 CAPLUS
Pyridinium, I, I'-[oxybis[4, 1-phenyleneimino[6-[[5-hydroxy-7-sulfo-6[[1,5,7-trisulfo-2-naphthalenyl)azo]-2-naphthalenyl]amino]-1,3,5-triazine4,2-diyl]]]bis[3-carboxy-, bis(inner salt) (901) (CA INDEX NAME)

ANSWER 60 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

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98214-51-8 CAPLUS
Pyridinium, 1, 1'-[iminobis[4,1-phenyleneimino[6-[[6-[(4,8-disulfo-1-naphthaleny]]amino]-1,3,5-trimzine-4,2-diyl]]]bis[3-carboxy-, bis(inner salt) (9CI) (CA INDEX NAME)

L4 ANSWER 61 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1985:115136 CAPLUS
102:115136
102:115136
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102:115136

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
IP 59179666	A	19841012	JP 1983-55428	19830331
IP 04064345	В	19921014		
PRIORITY APPLN. INFO.:			JP 1983-55428	19830331
CRAPHIC IMAGE:				

ABSTRACT: Reactive dyes which dye natural (or regenerated) cellulose fibers deep orange to scarlet are compids. of the formula I (R = benzene or naphthalene-type diazo component residue: RI = H, Me, Ett. R2, R3 = H, Ne, Ne, NeO, SO3H: R4 = aliphatic or aromatic amino residue having I-2 SO3H). The dyes show excellent dyeing affinity and fastness to chlorine, light, and perspiration. Thus, II (KS = R6 = CI) [95211-35-1] was treated with 3-mainobenzenesulfonic acid [121-47-1] and then with m-HZNGH4SO2CH2CH2OSO3H [249-88-4] to obtain II (RS =  $\alpha$ -NHC6H4SO2H: R6 =  $\alpha$ -NHC6H4SO2H2 =  $\alpha$ 

L4 ANSWER 60 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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L4 ANSWER 61 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

--- CH2-- OSO3H

95211-27-1 CAPLUS
Benzoic acid. 2-[[4-[cthy1[5-hydroxy-1,7-disulfo-6-[(1-sulfo-2-naphthalenyl]amino]-6-[[4-[[2-(sulfoox)ethy1]sulfonyl]phenyl]amino]-1, 3,5-1riazin-2-yl}amino]-5-sulfo-(GCI) (CA INDEX NAME)

PAGE 1-B

L4 ANSWER 61 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

$$\begin{array}{c} \text{PAGE } 1\text{-A} \\ \text{NO}_{3}\text{SO} - \text{CH}_{2} -$$

PAGE 1-8

95211-30-6 CAPLUS

1.5-Naphthalenedisulfonic acid. 2-[[1-hydroxy-6-[methyl[4-[2-sulfootxy]-6-methyl]]]

sulfoothyl] maino]-6-[[3-[[2-(sulfooxy)ethyl]]]

triazin-2-yl]amino]-3,5-disulfo-2-naphthalenyl]

AMAE)

(CA INDEX NAME)

ANSWER 61 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

95211-33-9 CAPLUS
1, 3, 6-Naphthalenetrisulfonic acid, 7-[[1-hydroxy-6-[[4-[[2-methoxy-5-[[2culfoxy]-cthyl]aulfonyl]phenyl]amino]-6-[(3-sulfophenyl]mmino]-1, 3, 5triazin-2-yl]amino]-3, 5-disulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX
NAME)

L4 ANSWER 61 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

PAGE 1-B

95211-31-7 CAPLUS
1,5-Naphthalenedisulfonic acid, 2-[[1-hydroxy-6-{[4-[[2-methoxy-5-methy]-4-[[2-(sulfoxy)ethy]]sulfony]]phenyl]amino]-6-{(3-sulfophenyl)amino]-1, 3, 5-triazin-2-yl]amino]-3, 5-disulfo-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

95211-32-8 CAPLUS 1,7-Naphthalenedisulfonic acid, 6-[(3,6-disulfo-2-naphthalenyl)azo]-5-hydroxy-2-[4-[4-[(4-[(a-lifoxxy)ethyl]sulfonyl]phenyl]amino]-6-[(4-sulfophenyl)amino]-1,3,5-triazin-2-yl]amino]- (9CI) (CA INDEX NAME)

L4 ANSWER 62 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1994:193522 CAPLUS
DOCUMENT NUMBER: 100:193522 TAPLUS
1TILE: 2 Reactive dyes for cellulose fibers
PATENT ASSIGNEE(S): Mistubini Chemical Industries Co., Ltd., Japan
SOURCE: JRXXAF
DOCUMENT TYPE: Patent

DOCUMENT TYPE: Patent LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE JP 58191755 JP 03034505 PRIORITY APPLN, INFO.: GRAPHIC IMAGE: 19831109 19910522 JP 1982-75856 19820506 JP 1982-75856 19820506

$$\begin{array}{c} \text{NR} = \text{N} \\ \text{HO}_{3}\text{S} \\ \text{HO}_{3}\text{S} \\ \text{NR} \\$$

ARSTRACT:

Title dyes have the formula I (R = benzene or naphthalene-type diazo component residue: RI = H, Me. E:: R2 = aliphatic or aromatic amino moiety having 1-2 SO3N groups: R3, R4 = H, Ne, OMe. SO3H). The dyes are useful for dyeing cellulome fibers, especially natural and regenerated cellulome fibers, fast dark orange or pale red shudes. Thus, 11 (R5 = NNCGH4SO3H-3: R6 = CI) [59641-46-2] was condensed with 3-(De-sulfateothy)sulfonyl]mailine [2494-88-4] to give II (R5 = NNCGH4SO3H-3: R6 = NNCGH4SO3H-3: R6 = NNCGH4SO3H-3) [89994-51-4]. The dye was used to dye cotton fabric pale red at 50° in the presence of Glauber's salt and showed high exhaustion.

- 89930-41-6 89930-42-7 89930-43-8
  RL: UNES (Uses)
  (reactive dye, for cellulose fibers)
  89930-41-6 CAPILIS
  1,4-Benzenedisulfonic acid, 2-[[4-[5-hydroxy-7-sulfo-6-[(1-sulfo-2-naphthaleny)]amino]-6-[[4-[[2-(sulfoxy)ethy]]sulfony]]phenyl]mmino]-1,3,5-triazin-2-yl]amino]- (9C1)
  (CA INDEX MAME)

L4 ANSWER 62 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

--- CH2-- OSO3H

89930-42-7 CAPLUS
2, 7-Maphthalenedisulfonic acid, 3-[{1-hydroxy-3-sulfo-6-[[4-[(2-sulfootx)]sulfo-6-[[4-[(2-sulfootx)]sulfonix)]phenyl]amino]-1,3,5-triazin-2-yl]amino]-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

$$\begin{array}{c} \text{PAGE 1-A} \\ \text{H0}_{3}\text{SO}-\text{CH}_{2}-\text{CH}_{2}-\text{S}=0 \\ \\ \text{O} \\ \text{NI} \\ \text{N} $

PAGE 1-B

89930-43-8 CAPLUS

1,5-Naphthalenedisulfonic acid, 3-[[6-[ethy1]4-[[4-[[2(sulfooxy)ethy1]sulfony1]pheny1]amino]-6-[(4-sulfopheny1)amino]-1, 3, 5triazin-2-y1]amino]-1-hydroxy-3-sulfo-2-naphthaleny1]azo]- (9CI) (CA
INDEX NAME)

L4 ANSWER 63 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
DOCUMENT NUMBER:
100:105043 CAPLUS
100:105043 CAPL

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

GRAPHIC IMAGE:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3314663	Al	19831027	DE 1983-3314663	19830422
DE 3314663	C2	19941020		
IP 58186682	A	19831031	JP 1982-69584	19820427
US 4453945	A	19840612	US 1983-486520	19830419
GB 2125443	٨	19840307	GB 1983-10726	19830420
GB 2125443	8	19860723		
FR 2525646	ΑI	19831028	FR 1983-6866	19830426
FR 2525646	81	19860711		
CH 672387	A3	19891130	CH 1983-2233	19830426
CH 672387	85	19900531		
CH 672795	A5	19891229	CH 1989-369	19830426
CH 672794	A5	19891229	CH 1989-370	19830426
GB 2160213	A	19851218	GB 1985-11645	19850508
GB 2160213	8	19860723		
GB 2165852	Ā	19860423	GB 1985-12205	19850514
GB 2165852	B	19861008		
PRIORITY APPLN. INFO.:	-		JP 1982-69584	A 19820427
			GB 1983-10726	A3 19830420
			CH 1983-2233	A 19830426

ABSTRACT: Cellulose fibers or their blends are dyed by an exhaustion process using reactive dyes having 21 triazine groups containing a a-carboyxpyridinium group or its malt in an aqueous dyebath at pH 4-10 and 95-150°. Thus, a dyebath containing 0.5 part I, Z = 4-MIGGHMM [88480-47-1] and l part C. I. Disperse Red 164 was used to dye a cotton-polyester textile at 140° to give a deeply dyed textile with both components dyed in the same shade with good fastness properties.

88458-63-3 RL: USES (Uses) (dye, for reactive dyeing of cellulosic blend fibers)

L4 ANSWER 62 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 63 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) 88458-63-3 CAPLUS Pyridinium, 1-[4-maino-6-[[6-[(1,5-disulfo-2-maphthaleny])azo]-5-hydroxy-7-sulfo-2-maphthaleny]]methylamino]-1, 3,5-triazin-2-yl]-3-carboxy-, chloride (9CI) (CA INDEX NAME)

• c1-

L4 ANSWER 64 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1983:524072 CAPLUS
DOCUMENT NUMBER: 29:124072 CAPLUS
NVENTOR(S): Sulfonyl group-containing reactive dyes
Scheibli, Peter: Seiler, Herbert
Ciba-Geigy A.-G., Switz.
EUR. Pat. Appl., 66 pp.
CODEN: EPXXDW
Patent

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION N	<b>)</b> .	DATE
EP 76782	A2	19830413	EP 1982-81040	2	19820927
EP 76782	A3	19830727			
EP 76782	B1	19860305			
R: CH. DE. FR.	GB. 11	r. Li			
JP 58071957	A	19830428	JP 1982-17254	7	19821002
JP 60017457	В	19850502			
PRIORITY APPLN, INFO.:			CH 1981-6353	A	19811002
OTHER SOURCE(S):	MARPAT	99:124072			
GRAPHIC IMAGE:					

ABSTRACT:
Reactive dyes are prepared which are especially suitable for exhaustion dyeing at low temps., e.g. of cottom, and are represented by general structure 1 where Q is the residue of a sulfo group-containing organic dye. R = H or optionally substituted C1-4 alkyl, Z = optionally substituted aliphatic or aromatic bridging group, RI = CNICH2 or LECHZK (K = group eliminable by alkali), R2 = H or optionally substituted hydrocarbyl, Thus, reaction of 7-(4-amino-2-ureidophenylaso)-1.3.6-naphthalenetrisulfonic acid [28566-82-7] with cyanuric fluoride [675-14-9] at 0-5° with LECNICCHESCOCCHICHOI [2304-83-4] at 20-25' then at 40°, and finally with HESO4 gave 11 [86806-65-7] which dyed cotton reddish yellow shades by the low-temperature method. The preparation of other dyes is described.

L4 ANSWER 65 OF 76
ACCESSION NUMBER:
1983:55553 CAPLUS
1983:55553

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 3114088	AL	19821028	DE 1981-3114088		19810408
EP 65595	A2	19821201	EP 1981-106799		19810901
EP 65595	A3	19830420			
EP 65595	B1	19860226			
R: CH, DE, FR,	GB, IT	, NL, SE			
<ul> <li>JP 57179170</li> </ul>	۸	19821104	JP 1982-53964		19820402
FI 8201216	A	19821009	F1 1982-1216		19820406
BR 8201957	A	19830308	BR 1982-1957		19820406
CA 1187078	A1	19850514	CA 1982-400543		19820406
US 4544737	A	19851001	US 1984-586903		19840309
PRIORITY APPLN. INFO.:			DE 1981-3114088	Α.	19810408
			US 1982-360287	A2	19820322
OTHER SOURCE(S):	MARPAT	98:55553			
GRAPHIC IMAGE:					

OH R4 N N N N N N N N N N N N N N N N N N	
OH	
hch2ch2oH	11

ABSTRACT:

Compds, of general structure I are prepared, where R = H or azo dye residue, R1 = H or nlvq, R2 and R3 = H, alkyl, alkenyl, or aralkyl, and R4 = halogen, OH, H or nlkyl, R2 and R3 = H, alkyl, alkenyl, or aralkyl, and R4 = halogen, OH, alkov, Callyl, aryl, and more of settle structured and the settle structured and settle structured s

ANSWER 64 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN L4 (Continued)

R6806-62-4P
RL: NBF (Industrial manufacture): RCT (Reactant): TEM (Technical or engineered material use): PREP (Preparation): RACT (Reactant or reagent): USES (Usea)
(Ganufacture of as reactive dye for cotton)
86806-62-4 (CAPLUS
1.5-Naht halendisulfonic acid, 2-[[6-[[4,6-bis[[2-[(2-chloroethy])sulfony]]ethy]]amino]-1,3,5-triazin-2-y]]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9Cl) (CA INDEX NAME)

PAGE 1-A

PAGE 1-B

L4 ANSWER 65 OF 76 CAPLUS COPYRIGHT 2007 ACS ON STN

84269-23-8P
RL: IMP (Industrial manufacture): TEM (Technical or engineered material uses): PREP (Preparation): USES (Uses)
(manufacture of, as dye for paper)
84269-23-8 CAPLUS
1-Naphthalenemethanaminium, 6-[6-[4-[bis(2-hydroxyethy]) manino]-6-[4-(2-hydroxyethy])-1-pipera[iny]]-1, 5-rirazin-2-yllamino]-1-hydroxy-3-sulfo-2-naphthalenyl]mzo]-N, N, N-trimethyl-, chloride (9C1) (CA INDEX NAME)

• c1-

PAGE 1-B

--- CH2-- OH

L4 ANSWER 66 0F 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION MAMBER:
1988:55552 CAPLUS
098:55552
Water-soluble triozine compounds and their use as azo
dyes and coupling components
NICKEL, HOPSEL, Wild, Peter: Stochr, Frank Michael
Bayer A. - C., Fed. Rep. Ger.
Ger. Offen., 30 pp.
DOCUMENT TYPE:
DANGHAGE:
Patent

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 3114087	Al	19821028	DE 1981-3114087	19810408
EP 62825	A2	19821020	EP 1982-102617	19820329
EP 62825	A3	19830601		
EP 62825	81	19870311		
R: CH, DE, FI	R, GB			
IP 57179171	Α.	19821104	IP 1982-53965	19820402
IP 04056036	В	19920907		
US 4839468	A	19890613	US 1984-670683	19841113
PRIORITY APPLN. INFO.:			DE 1981-3114087	A 19810408
			US 1982-360288	A2 19820322
			US 1984-607332	A1 19840504

GRAPHIC IMAGE:

ABSTRACT: Compds, of general structure I are prepared, where R = H or alkyl (especially Me), RI = H or as 0 dye residue, R2 = helogen, 0H, elkoxy, elkyl, aryl, mmino, or substituted amino, Z = arylene, m = 0 or 1, and 9+ = ammonium group, 1 (RI = H) are are couplers, and I (RI = azo residue) are especially useful as fast dyes for paper. Thus, condensation of cyanuric chloride [108-77-0] with 3-HIXC6H4N+Me3Cl- [6375-71-9] at 0-5\* and at 40-50\*, and reaction of the regultant monochlorotrimaine derivative [84269-24-9] with J acid [87-02-5] at 80-90\* gave II (R3 = H, X = Cl) (III) [84269-25-0].

L4 ANSWER 67 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1982:564520 CAPLUS
97:164520
1TILE:
1TILE:
1NVECTOR(S):
1APETT ASSIGNEE(S):
SOURCE:
1DOCUMENT TYPE:
1DOC

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
CH 628920	A5	19820331	CH 1979-11289		19791219
JP 49080373	A	19740802	JP 1972-121694		19721206
JP 52015712	В	19770502			
JP 49081437	A	19740806	JP 1972-123701		19721209
JP 55038374	В	19801003			
JP 50026830	A	19750319	JP 1973-77066		19730710
JP 55038375	В	19801003			
JP 50030930	Ā	19750327	JP 1973-82271		19730719
JP 55038376	В	19801003			
PRIORITY APPLN. INFO.:			JP 1972-121694	Ņ	19721206
			JP 1972-123701	Ą	19721209
			JP 1973-77066	A	19730710
			JP 1973-82271	٨	19730719
			CH 1973-17144		19731206

GRAPHIC IMAGE:

\* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ARSTRACT:

Azo dyes (I: R = optionally substituted benzene residue not containing OH, CO2H, MeO, ELO groups ortho to azo bond: sulfo group-substituted naphthalene or stilbene: azo chromophore: R1, R3 = H. Me: R1 = morpholino, diethanolamino, ethanolamino, MeX: R4 = H. SO3H: SO3H meta or para to azo group) are prepared by reaction of cyanuric halide in the presence of 1 part acid binder based on mol. ratios of reactmats with 1 part (Phenylazo)naphthylamine copper complex with 1 part (R1: M=substituted hydroxysulfonaphthylamine and then with 1 part R2H. These water=soluble red dyes have a high affinity for paper and cellulosic fibers. A typical compound prepared was II.

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82688-29-7P
RL: NMF (Industrial manufacture): PREP (Preparation)
(preparation of)
82688-29-7 CAPILIS
Cuprate (4-) [4-hydroxy-7-[4-[5-hydroxy-6-[(2-hydroxy-5-sulfophenyl)azo]-7-sulfo-2-naphthalenyl) amino]-6-[(2-hydroxyethyl) amino]-1, 3, 5-triazin-2-yllamino]-3-[(6-sulfo-2-naphthalenyl)azo]-2-naphthalensulfonato(6-)]-,
tetrahydrogen (9C1) (CA INDEX NAME)

L4 ANSWER 66 OF 76 CAPLUS COPYRIGHT 2007 ACS on STM (Continued) Coupling of 111 with diazotized 4-chlorosnilline [106-47-8] gave 11 (R3 = 4-ClCGHANN, X = 0Ac) [84269-27-2], an orange dye for paper.

84269-29-4P
RL: IMF (Industrial manufacture): TEM (Technical or engineered material use): PREP (Preparation): USES (Uses)
(manufacture of, as dye for paper)
84269-29-4 CAPLUS
1-Naphthal enemethanaminium, 6-[[1-hydroxy-6-[[4-(methylphenylamino)-6-[{3-(trimethylammonio)phenyllamino)-1, 3,5-triazin-2-y]lamino]-3-sulfo-2-naphthalenyllazo]-N, N, N-trimethyl-, inner salt, chloride (9CI) (CA INDEX NAME)

PAGE 1-B

— N+Ne3

14 ANSWER 67 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

(Continued) PAGE 1-A

LA ANSWER 68 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
1082:493947 CAPLUS
97:03047
TITLE:
1NYENTOR(S):
1NYE

Portuguese 2

FAMILY ACC, NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 19820302 BR 1981-3722 GB 1980-19871 GB 1981-10321 19810611 RR 8103722 PRIORITY APPLN. INFO.:

GRAPHIC IMAGE:

ABSTRACT:
Disazo fiber-reactive dyes I (R = H, Cl, S03H: RI = H, Cl-4 alkyl: R2 = Cl, Br, S03H, quaternary ammonium group: R3, R4 = H, Me, E1: R5 = H, S03H, C02H: R6 = H, Cl, Me, OMe: m, n = 1, 2) are prepared and used to dye cellulosic textiles in fast intense shades. Thus, trisodium 2-[[6-[4,6-dichloro-s-triazin-2-yl) maino]-hydroxy-3-sulfo-2-naphtyl] azol-1, 5-naphthalenedisulfonate [81286-05-7] was condensed with 3.4-toluenedismine [496-72-0] to give I [R = R1 = R3 = R4 = R5 = H, R2 = Cl, R6m = 4-Me, n = 1 (5-position)] [81286-12-6], fast reddish orange on cellulosic textiles. Four addnl. 1 were prepared by related methods.

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82782-80-7
RL: TEM (Technical or engineered material use): USES (Uses) (dye, for cellulosic textiles, preparation of)
82782-80-7 CAPLUS
Pyridinium. 1,1' = [(4-methyl-1,2-phenylene)bis[imino[6-[[6-[(1.5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazine-4,2-diyl]])bis[3-carboxy-, bis(immer salt), hexasodium salt (9C1) (CA INDEX NAME)

L4 ANSWER 69 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1982:164135 CAPLUS 96:164135 INTITUE: Reactive dyes
INVENTOR(S): Andrew, Herbert Francis: Barlow, Clive Hugh
ATRENT ASSIGNEE(S): COUNT: Pat. Appl., 19 pp.
CODEMENT TYPE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION: English
TARILY ACC. NUM. COUNT: PATENT INFORMATION: PATENT INF

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
EP 42204 R: BE, CH, DE,	A2 FR. GB.	19811223	EP 1981-301434	19810402
AU 8169688	A	19811224	AU 1981-69688	19810421
ZA 8102611	Ä	19820428	ZA 1981-2611	19810421
IP 57030764	Ä	19820219	IP 1981-91655	19810616
CS 222247	B2	19830527	CS 1981-4494	19810616
ES 503142	ÀΪ	19820416	ES 1981-503142	19810617
PRIORITY APPLN, INFO, : GRAPHIC IMAGE:			GB 1980-19871 A	19800618

ABSTRACT: Cellulose reactive dyes, which in the free acid form have general structure I. The lulose reactive dyes, which in the free acid form have general structure I. The representation of the lulose reactive dyes are prepared where R = H. Cl. or SO3H; Rl = H. Cl-4 alkyl: R2 = Cl, Br, F, SO3H, or a quaternary association group: R3, R4 = (independently) H, Me, Et: R5 = H, SO3H, or CO2H: R6 = H, Cl. Me, or ONe: a = 1 or 2: and n = 1 or 2. Thus, tri-Ma 2-(2,4-dichloro-s-triazin-6-ylamino)-6-(1,5-disulfonaphth-2-ylazo)-5-naphthol-7-sulfonate [R1286-05-7] in where was trented with 3.4-disminotoluene [496-72-0] and stirred 1 h at 40° to give 1[R=R1=R3=R4=R5=H], R2 = Cl, R6 = Me, m = 1 (at position 4), n = 1 (at position 5). Na salt] [81286-12-6] which dyed cellulosic textiles in strong redish orange shades that were fast to light and washing.

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81286-14-8 RL: USES (Uses) (renctive dye, for cellulose fibers, manufacture of) 81286-14-8 CAPLUS

L4 ANSWER 68 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

ANSWER 69 0F 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
Pyridinium, 1,1'-[(4-methyl-1,2-phenylene)bis[imino[6-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl]amino]-1,3,5-triazine-4,2-diyll]]bis[3-carboxy-, dichloride, octasodium salt (9C1) (CA INDEX MAME)

PAGE 3-A

L4 ANSWER 70 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
1979:475691 CAPLUS
11TLE:
1NVENTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
POCUMENT TYPE:
LANGUAGE:
FAMILY ACC. NIM. COUNT:
FAMI

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM, COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2748966	Al	19790503	DE 1977-2748966	_	19771102
DE 2748966	B2	19791213			
DE 2748966	C3	19800821			
IN 150365	Al	19820918	IN 1978-CA1161		19781026
CH 639120	A5	19831031	CH 1978-11224		19781031
BR 7807228	A	19790612	BR 1978-7228		19781101
IP 54081335	A	19790628	IP 1978-133848		19781101
IP 62039179	В	19870821	•		
GB 2007698	Ä	19790523	GB 1978-42968		19781102
GB 2007698	В	19820407			
FR 2407960	ĀL	19790601	FR 1978-31030		19781102
FR 2407960	Bi	19850823			
CA 1106839	ĀÌ	19810811	CA 1978-315742		19781102
BE 871728	Al	19790503	BE 1978-191501		19781103
PRIORITY APPLN. INFO.:			DE 1977-2748966	٨	19771102
GRAPHIC IMAGE:					

## \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

ABSTRACT: Fiber-reactive azo dyes of general structure 1 and their metal complexes (Cu, Cr, Co) are prepared for application on cellulose or polyamide fibers. In structure 1, Z represents a benzene or naphthalene nucleus: 21 and 22 are the same or different divalent groups selected from 23 (n = 0 or 1) and 24: R = 11, halogen, or an alkyl, alkoxy, HO, carboxy, or sulfo group ortho to the azo group; RI = H, halogen, alkyl, alkoxy, NOZ, or sulfo; R2 = Cl, F, Br, or a sulfo, amino, thioether, or ether group; and R3 = P-sulfatethyl. vinyl, CICH2CH2, or P-thiosulfatoethyl. For example, diazotization of 4-H2NCGHSSOZH2CH2CASOSM [2494-89-5] and coupling with the product [23686-05-7] obtained by successive reaction of 1 mol cyanuric chloride [108-77-0] with 1 mol H acid [90-00] and 1 mol I acid [87-02-5] gave II [70817-75-3], a fast red dye for cotton.

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70866-95-4P
RL: PREP (Preparation)
Gamufacture of, as reactive dye for cellulose fibers)
70866-95-4 CAPLUS
2-Naphthalenesulfonic acid, 7, 7-[6-[(3-sulfophenyl)amino]-1, 3, 5-triazine-2, 4-diyl]dimino]bis[4-hydroxy-3-[[6-sulfo-8-[[2-(sulfooxy)ethyl]sulfonyl]-2-naphthalenyl]azo]- (9C1) (CA INDEX NAME)

L4 ANSWER 71 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION MINDER:
1979: 458695 CAPLUS
0158695 CAPLUS
91: 58895 CAPLUS
91:

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2847307	AL	19790510	DE 1978-2847307		19781031
FR 2407968	Al	19790601	FR 1978-30789		19781030
JP 54072228	A	19790609	IP 1978-132720		19781030
BE 871681	Al	19790430	BE 1978-191460		19781031
F1 7803305	Ä	19790504	FI 1978-3305		19781031
SE 7811373	Ä	19790504	SE 1978-11373		19781102
GB 2007250	Ä	19790516	GB 1978-43034		19781102
PRIORITY APPLN. INFO. :			LU 1977-78438	٨	19771103

ARSTRACT:
Substantive red dyes (1) for cotton and especially paper are prepared, where R and RI represent the residue of benzene, naphthalene, or heterocyclic diazo components, R2 and R3 are H or Ne, and R4 is H or HOCHECH2. Thus, reaction of J acid [87-72-5] with cyanuric chloride [108-77-9], coupling with diazotized 2,4-HOSS(MeO)CGH3MN2 [13244-33-2], and treatment of the product with diethanolamine [111-42-2] gave [1R = R1 = 2,4-HOSS(MeO)CGH3, R2 = R3 = H, R4 = HOCH2CH2] [70763-98-3]. Other 1 were similarly prepared

70763-97-2P
RI: PREP (Preparation)
(manufacture of, as dye for cotton and paper)
70763-97-2 CAPLUS
1-Naphthalenesulfonic acid, 2-[6-[4-[bis(2-hydroxyethyl)amino]-6-[[5-hydroxy-6-[(4-methoxy-2-sulfophenyl)azo]-7-sulfo-2-naphthalenyl]amino]1,3,5-trizzin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthalenyl]azo]- (9C1)
(CA INDEX NAME)

ANSWER 70 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN

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-- CH2-OSO3H

L4 ANSWER 71 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-B

L4 ANSWER 72 OF 76
ACCESSION NUMBER:
DOCUMENT NUMBER:
TITLE:
INVECTOR(S):
PATENT ASSIGNEE(S):
SOURCE:
DOCUMENT TYPE:
DOCUMENT TYPE:

CAPLUS COPYRIGHT 2007 ACS on STN
1977:56730 CAPLUS
DYS for cellulose-containing textiles
Plant, David W.: Williams, David John
Imperial Chemical Industries Ltd. UK
Ger. Offen., 77 pp.
CODEN: GWXXBX
Patent

DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
DE 2616683	Al	19761028	DE 1976-2616683		19760415
GB 1502684	٨	19780301	GB 1975-15397		19750415
ZA 7601908	Ä	19770330	ZA 1976-1908		19760330
AU 497288	B2	19781207	AU 1976-12651		19760405
BR 7602255	A	19761012	BR 1976-2255		19760413
CS 189760	B2	19790430	CS 1976-2441		19760413
NL 7603952	۸	19761019	NL 1976-3952		19760414
FR 2307852	ΑI	19761112	FR 1976-11038		19760414
FR 2307852	BI	19801205			
DD 125539	A5	19770427	DD 1976-192367		19760414
ES 447017	A1	19790516	ES 1976-447017		19760414
BE 840810	A1	19761015	BE 1976-166215		19760415
CH 625267	A5	19810915	CH 1976-4894		19760415
ES 451996	A1	19771001	ES 1976-451996		19760930
ES 451998	Al	19771001	ES 1976~451998		19760930
ES 451997	A1	19780101	ES 1976-451997		19760930
PRIORITY APPLN, INFO.:			GB 1975-15397	٨	19750415
			GB 1976-672	A	19760108
			GB 1976-2171	A	19760120

GRAPHIC IMAGE:

ABSTRACT:
Fast dyes for cellulosic fibers are prepared by bonding maino-substituted azo, anthraquinome, stilbene, or triphenodioxazine dyes through an s-triazine bridge to a group of general structure N(R)ZPO3H2, where R = H or alkyl and Z = alkylene or arylene; the triazine bridge also is substituted by a halo, amino, alkony, OH, or quaternary ammonium group. These dyes are applied (alone in the presence of disperse dyes) from acidic aqueous medin, followed by taking in the presence of cyanaside or dicyandiamide. A typical dye, the orange ammonium salt [61433-42-9] of I, was prepared by successive renction of cyanuric chloride [108-77-0] with 1.3,6,2-Ho(HOOS)(WeNI)CIOH4N:NCIOH5(SO3H)-2,1,5 [61433-43-0] and m-H2NCGHMPO3H2 [5427-30-5] followed by treatment with NHCI.

L4 ANSWER 72 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

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●x NH3

ANSWER 72 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

11

61433-13-4P 61433-14-5P
RL: INF (Industrial manufacture): PREP (Preparation) (preparation of)
61433-13-4 CAPLUS
Pyridinium, 1-[4-[[6-[(1,5-disulfo-2-naphthalenyl)azo]-5-hydroxy-7-sulfo-2-naphthalenyl)methylamino]-6-[(3-phosphonophenyl)amino]-1, 3, 5-triazin-2-yl]-, chloride, ammonium salt (9C1) (CA INDEX NAME)

61433-14-5 CAPLUS
1, 3,5-Trizzin-2-aminium, 4-[[6-[(1,5-disulfo-2-maphthalenyl)azo]-5-hydroxy-7-sulfo-2-maphthalenyl]methylamino]-N, N, N-trimethyl-6-[(3-phosphonophenyl)amino]-, chloride, ammonium salt (9C1) (CA INDEX NAME)

63:15018h, 15019a-b Metallized azo dyes CIBA Ltd. 8 pp. Patent Unavailable 1 PATENT ASSIGNEE (S):

SOURCE: DOCUMENT TYPE: LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

PATENT NO. KIND UNIT. AITCLUSTION.

NI. 6409824 19550301 NI. 1964-9824 19640825
FR 1411276 FR
PRIORITY APPLN. INFO.:
CII 19630826
GRAPHIC IMAGE: For diagram(s), see printed CA Issue. 19630826
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859451-81-3. 1-Naphthalenesulfonic acid. 4-[6-[4-amino-6-[(2-hydroxyethyl)amino]-s-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthyl]asoj-3-hydroxy-7-nitro-(chromium and Co complexes)
859451-81-3 CAPLIS
1-Naphthalenesulfonic acid. 4-[6-[4-amino-6-[(2-hydroxyethyl)amino]-s-triazin-2-yl]amino]-1-hydroxy-3-sulfo-2-naphthyl]azoj-3-hydroxy-7-nitro-(7c1) (CA INDEX NAME)

Unavailable I

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

KIND DATE PATENT NO. APPLICATION NO. DATE

3445-95-2P. hydraxinium, 1-[4-mmino-6-[[6-[(1.5-disulfo-2-nmphthyl)azo]-5-hydroxy-7-sulfo-2-nmphthyl]methylmmino]-s-triazin-2-yl]1, 1-dimethyl-, chloride, trisodium salı
RL: PREP (Preparation)
(preparation of)
3445-95-2 CAPLUS
Hydrazinium, 1-[4-amino-6-[[6-[(1.5-disulfo-2-nmphthyl)azo]-5-hydroxy-7sulfo-2-nmphthyl]methylmmino]-s-triazin-2-yl]-1, 1-dimethyl-, chloride,
trisodium salı (8C1) (CA INDEX NAME)

● C1-

L4 ANSWER 75 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER: 1950: 39509 CAPLUS
DOCUMENT NUMBER: 44: 39509
ORIGINAL REFERENCE NO. 44: 7551h-1, 7552a
TITLE: Trisazo dyes
KAISER, OLIO
PATENT ASSIGNEE (S): C 1 B A Ltd.
POCUMENT TYPE:
LANGUAGE: PAMILY ACC, NUM. COUNT:
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. US 1946-673171 US 2493975 ABSTRACT: 19500110 19460529

US 2493075 19500110 US 1946-673171 19460529

ABSTRACT:
The synthesis and structure of trisazo dyes characterized by one salicylic acid radical is described. Care must be taken to select the various starting materials so that the final products contain sufficient sulfo groups or carboxyl groups to possess adequate solubility and not so many sulfo groups as to impair the dyeing capacity and properties of fastness of the final dyes. Cellulosic products dyed with these dyes and aftertreated with Cu salts are fast to washing. 5-Mainosalicylic acid diazotized and coupled with the ternary triazine condensation product from cyanuric chloride 1 mol., 2-maino-5-hydroxy-7-maphthalenesulfonic acid, 3-mainobenzenesulfonic acid, and aniline gave 5-(4-(4-[6-(4-mailino-6-m-sulfo-imphthylazo)-l-amphthylazo)-l-amphthylazol-acid. Also claimed was 5-(7-(4-(6-(4-mathylazo)-l-maphthylazo)-l-maphthylazo)-sulfo-2-maphthylazo)-l-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-sulfo-1-maphthylazol-sulfo-2-maphthylazol-5-sulfo-1-maphthylazol-sulfo-2-maphthylazol-5-sulfo-1-maphthylazol-sulfo-2-maphthylazol-5-sulfo-1-maphthylazol-sulfo-1-maphthylazol-sulfo-1-maphthylazol-1-map

880507-75-IP, Salicylic acid, 5-[4-[4-[6-(4-anilino-6-us-sulfoanilino-s-triazin-2-ylaaino)-1-hydroxy-3-sulfo-2-naphthylazo]-1-naphthylazo]-6-sulfo-1-naphthylazo]-860509-44-0P, Salicylic acid, 5-[7-[4-[1-hydroxy-6-(4-N-sethylanilino-6-us-sulfoanilino-s-triazin-2-ylamino)-3-sulfo-2-naphthylazo]-1-naphthylazo]-5-sulfo-2-naphthylazo]-Reformation of)
860507-75-1 CAPLUS
Salicylic acid, 5-[4-[4-[6-(4-anilino-6-us-sulfoanilino-s-triazin-2-ylamino)-1-hydroxy-3-sulfo-2-naphthylazo]-1-naphthylazo]-6-sulfo-1-naphthylazo]-(SCI) (CA INDEX NAME)

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ANSWER 75 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

860509-44-0 CAPLUS
Salicylic acid, 5-[7-[4-[1-hydroxy-6-(4-N-methylanilino-6-m-sulfoanilino-s-triazin-2-ylanino]-3-sulfo-2-naphthylazo]-1-naphthylazo]-5-sulfo-2-naphthylazo]- (5C1) (CA INDEX NAME)

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PAGE 1-A

L4 ANSWER 76 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

PAGE 1-A

PAGE 2-A

L4 ANSWER 76 OF 76 CAPLUS COPYRIGHT 2007 ACS on STN
ACCESSION NUMBER:
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HYPETIOR(S):
PATENT ASSIGNEE(S):
COMMENT TYPE:
LANGUAGE:
PATENT INFORMATION:

AC NUM. COUNT:
PATENT INFORMATION:

PATENT NO. APPLICATION NO. DATE KIND DATE

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Page 52

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L8 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN
AN 2006:382844 CAPLUS
144:414246
T1 Production of 4.4 -diazobenzanilide derivative dyestuffs and their uses
IN Lennartz, Michael: Lautenbach, Holger
PA Ciba Specialty Chemicals Holding Inc., Switz.
SO PCT Int. Appl., 89 pp.
CODEN: PIXXD2
T Palent
LA English
FAN. CNT I
PATENT NO.

PI W0 2006042801
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, F1, GB, GD,
GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KP, KR, KM,
LC, LK, LR, LS, LT, LU, LV, LY, LY, MA, MD, MG, MK, MM, MW, MX, MZ,
NA, NG, N1, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, CS,
SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN,
VU, ZA, ZM, ZW
RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, F1, FR, GB, GB, GH, GF,
CF, CG, C1, CM, GA, GN, CQ, GW, ML, MR, SN, TD, TG, BW, GH,
AU 2005266819
Al 2004-105118
W 0 2004-105118
W 0 2005-1975118
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### \* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT \*

AB The present invention provides 4.4'-diszobenzanilide derivs., a process for their preparation, their use as dyes, dyed paper, formulations comprising them and also precursors thereof and their processes of preparation Thus, thus 4-maino-4'-azohenaniline derivative (I) was reacted with barbituric acid to give a 4.4'-diszobenzanilide derivative dye (II) with good exhaustion and lightfastness when dyeing sulfite fibers.

RE. CNT 3 THERE ABE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

LB ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
excellent water soly., facilitating the use of concd. liq. compns. In an
example, cyanuric chloride was condensed with ethanolamine and 1-acid
(1:2:1) to give a coupling component which when used with diazotized
2-naphthylmaine-5-sulfonic acid gave a red dye.

L8 AN DN TI IN PA SO DT LA FAN. 6	ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN 2004:120915 CAPLUS 140:165440 4 CAPLUS 140:165440 Anionic monoazo dyes, their production and their use Lennartz, Michael: Weiss, Sandra Ciba Specially Chemicals Holding Inc., Switz. PCT Inl. Appl. 34 pp. CODEX: PIXXD2 Patent English				
1744.	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	CO, CR, CL GM, HR, HI, LS, I.T. LL PG, PH, PI, TR, TT, TZ RW: GH, GM, KE, GG, KZ, ME, F1, F8, G, CA 2493827 AU 2003246711 EP 1525267 EP 1525267 R: AT, BE, CH TE, SI, LT EB, SI, LT RE, SI, SI, SI, SI RE, SI, SI, SI RE, SI, SI, SI RE, SI, SI, SI RE, SI, SI RE, SI, SI RE, SI, SI RE, SI, SI RE, SI, SI RE, SI RE, SI RE, SI RE, SI RE, SI RE, SI RE, SI	CZ, DE, 1D, 1L, LV, MA, PT, RO, UA, UG, LS, MW, RU, TJ, GR, HU, CG, C1, A1 A1 B1 DE, DK, LV, F1, A	DK, DM, DZ, DK, DM, DZ, DK, DM, DK, MC, MD, MG, MD, MC, SC, SI, US, UZ, VC, MZ, SD, SI, TM, AT, Bf, LE, LT, LL, CM, GA, GM, 20040212 20040223 20050427 20070321   DES, FR, GE, RO, MK, CY, 200506142 20050921	E. E. E. E. S. FI. KE. KG. KP. KR. MN. MW. MX. MZ. S. SE. SG. SK. SL. VN. YU. ZA. ZM. SZ. TZ. UG. ZM. BG. CH. CY. CZ. MC. NL. T. RO. GQ. GW. ML. MR. CA 2003-2493627 AU 2003-246711 EP 2003-765203 L. AL., TR. BG. CZ. BR 2003-12902 CN. 2003-1738	EE, HU, SK 20030717 20030717
	JP 2005533914 AT 357484 US 2005256305 IN 2005CN00251	T T A)	20051110 20070415 20051117 20070330	JP 2004-525232 AT 2003-766203 US 2005-520964 IN 2005-CN251	20030717 20030717 20050111 20050223
PRAI OS GI	EP 2002-405652 WO 2003-EP7770 CASREACT 140:16544	A W	20020726 20030717		20030223

AB Yellowish-red anionic monoazo dyes (1: A = naphthyl containing 1-2 sulfo and/or carboxy groups: R = H, Cl-4-alkyl: Xl, X2 = substituted amino; n = 0-1) are disclosed, which show high degrees of exhaustion and color strength and fastness when used to dye paper and which exhibit

AB The invention relates to mzo dyes (I and/or II; A = optionally substituted benzenesulfonic acid group; R = H, optionally substituted CI-4-alkyl; XI, X2 = N-containing group; n = 0, I), the compds. being in an internal or external salt form. The dyes are prepared using ANIZ as the diazo components. The dyes are predominantly red and show high degrees of dyeing exhaustion and fastness to water and light. In an example, the condensation product of cyanuric chloride with 3-(diethylamino)propylamine and 6-amino-1-naphthplamino-6-sulfonic acid (1:2:1) was prepared and coupled with diazotized 1-naphthplamino-6-sulfonic acid to give a red dye.

RE. CNT 6 THERE ARE 6 CITER REFERENCES ANIALBLE FOR THIS RECORD ALL CITATIONS AVAILABLE IN THE RE FORMAT

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L5

(FILE 'HOME' ENTERED AT 10:57:58 ON 14 JUN 2007)

FILE 'REGISTRY' ENTERED AT 10:58:10 ON 14 JUN 2007
L1 STRUCTURE UPLOADED
D
L2 10 SEA SSS SAM L1
L3 166 SEA SSS FUL L1

FILE 'CAPLUS' ENTERED AT 10:58:57 ON 14 JUN 2007 76 SEA ABB=ON PLU=ON L3

D
D 2
D QUE L4 STAT
D 1-76 IBIB IABS HITSTR
E LENNARTZ MICHAEL/AU

11 SEA ABB=ON PLU=ON "LENNARTZ MICHAEL"/AU
E WEISS SANDRA/AU

L6 3 SEA ABB=ON PLU=ON "WEISS SANDRA"/AU
L7 11 SEA ABB=ON PLU=ON L5 OR L6

L7 11 SEA ABB=ON PLU=ON L5 OR L6 L8 4 SEA ABB=ON PLU=ON L7 AND (A

4 SEA ABB=ON PLU=ON L7 AND (AZO OR MONOAZO)

D QUE L8 STAT D 1-4 BIB ABS

# FILE HOME

# FILE REGISTRY

Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

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